

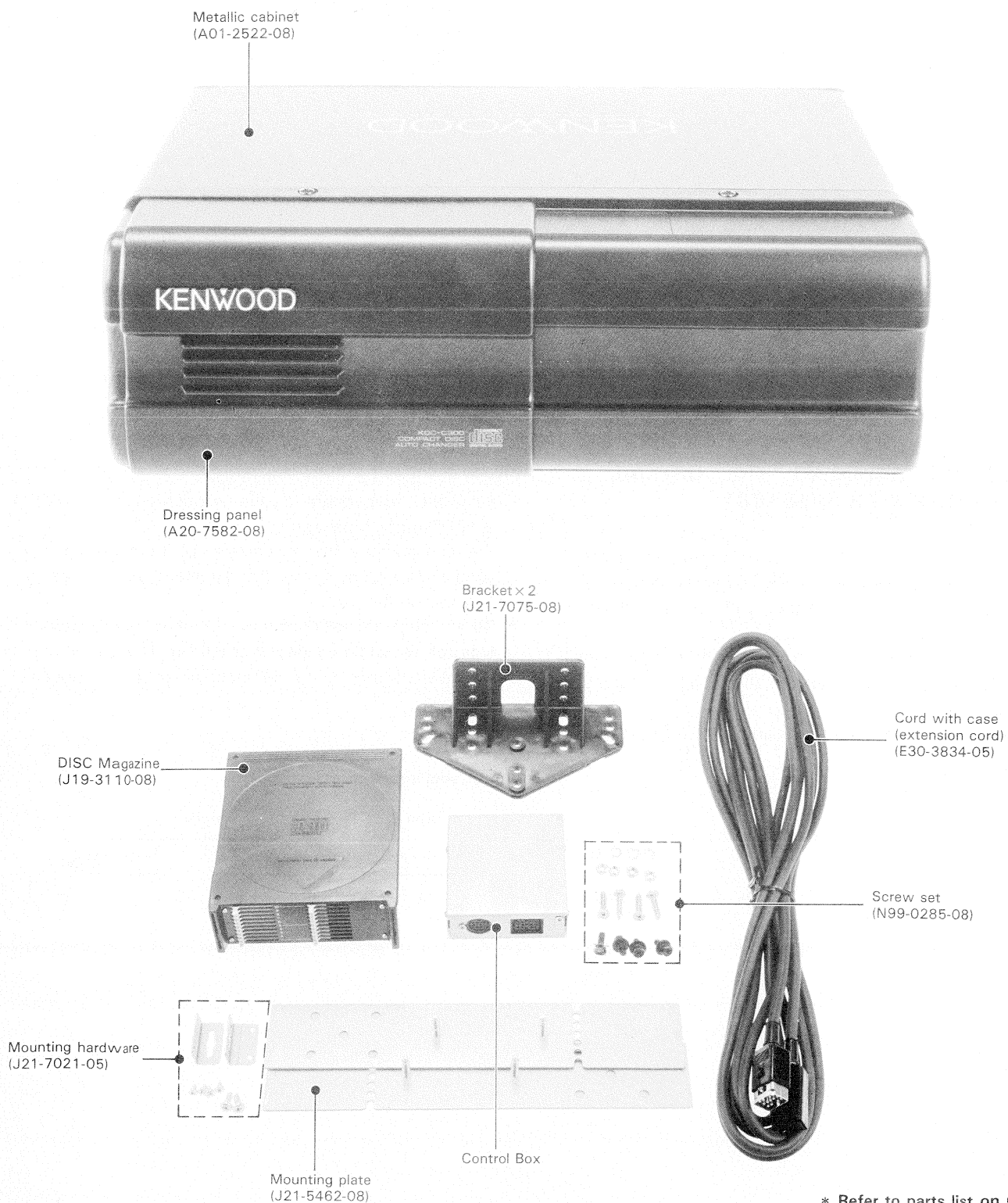
COMPACT DISC AUTO CHANGER

# KDC-C300

## SERVICE MANUAL

# KENWOOD

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\* Refer to parts list on page 55.

# KDC-C300

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## SERVICING NOTES

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

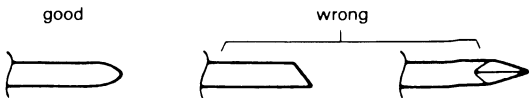
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

### Flexible Circuit Board Repairing

1. Keep the temperature of the soldering iron at 270° ± 10°C during repairing.  
You can maintain the temperature of the soldering iron around 270°C by using the thermal controller as illustrated on the right.
2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
3. Do not apply force on the conductor when soldering or unsoldering.

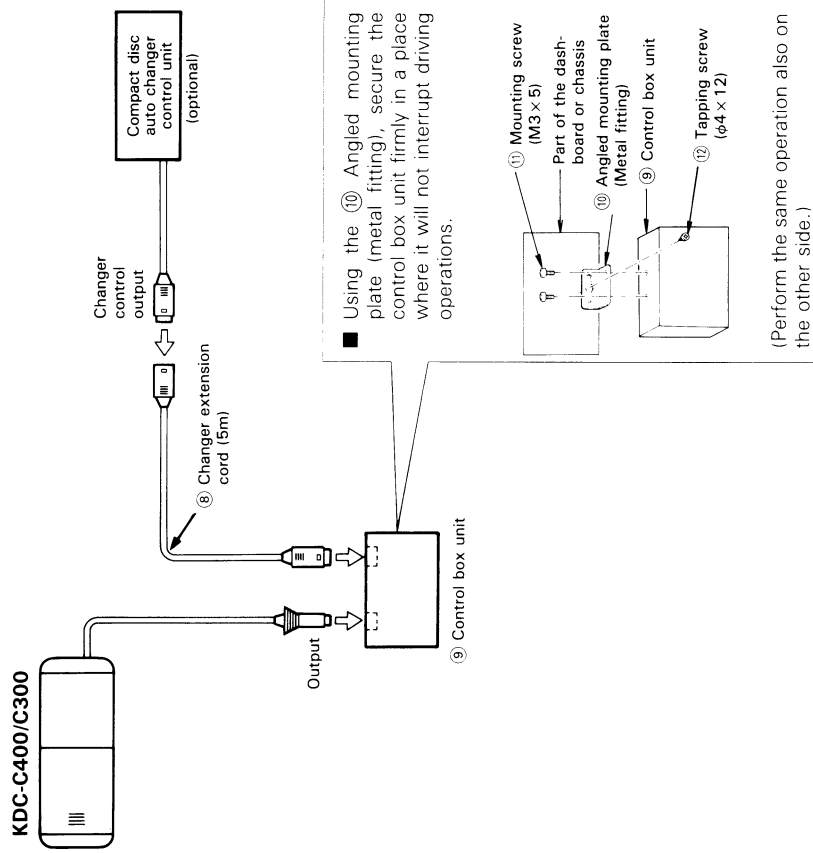
### Tip of soldering iron



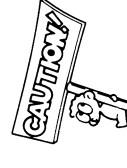
## HOW TO SET A COMPACT DISC

## CONNECTIONS

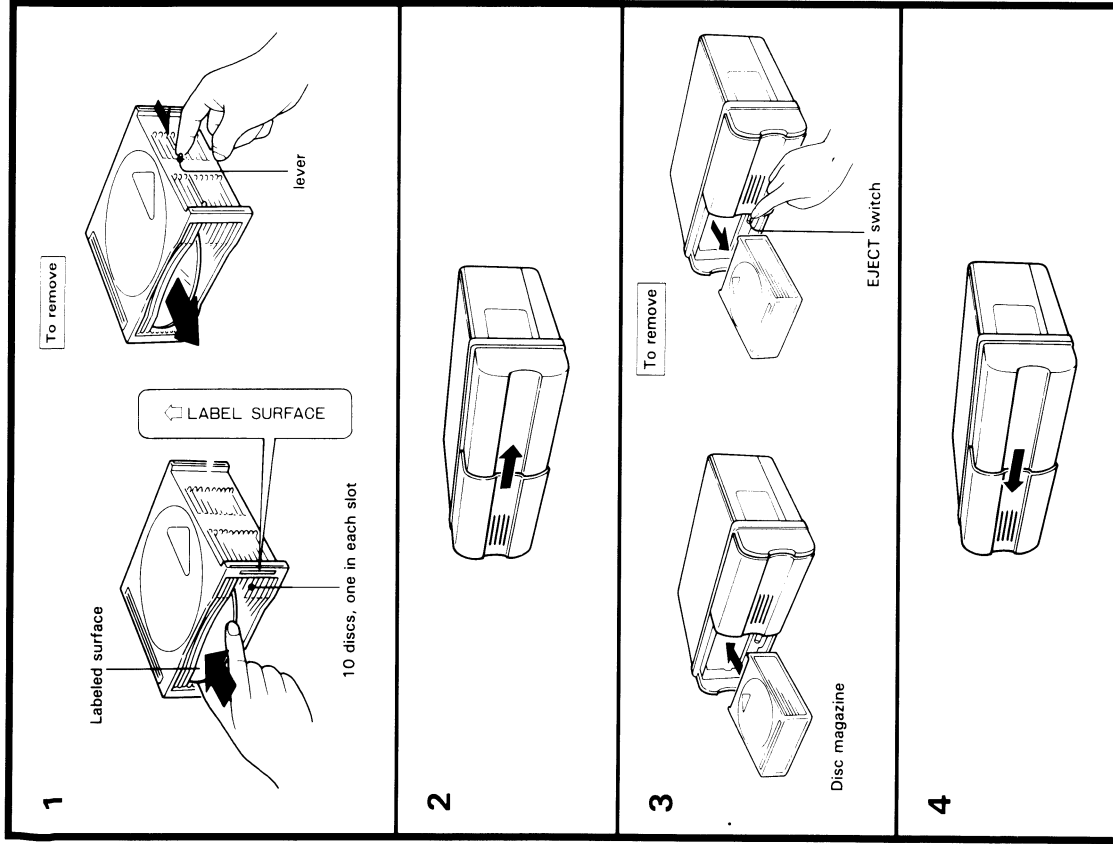
■ For more detailed connection method, please refer to the Instruction Manual supplied with the Compact Disc Auto Changer Control Unit.  
(If this unit is to be connected to other unit than the Controller, use the Control box unit ⑨ supplied with this unit.)



Do not install an antenna of radio equipment or distribute the antenna cable near the changer output cable, for this could cause malfunction with this unit.



## HOW TO SET A COMPACT DISC



**Use the unit with the door closed**  
Otherwise, foreign matter may enter the unit, and contaminate the lens in the player.

## HOW TO SET A COMPACT DISC/CONNECTION

## HOW TO INSTALL THE CHANGER

### INSTALLATION

#### Mounting diagram 1

##### Horizontal

**1** Place the holes of the ① changer mounting fitting upon the protrusions on the bottom of the main unit. Temporarily fix it on the ② changer mounting plate.

⑤ Screw (M5 x 12)  
⑥ Nut (M5)  
① Changer mounting fitting  
② Changer mounting plate

Under the carpet

**2** Peel off the released paper of the ② changer mounting plate and affix it on the mounting place under the rivet.

**3** Detach the unit only.

**4** Cut the carpet at the screw part of the ② changer mounting plate.

**5** Fix the changer with ⑥ nuts.

⑥ Nut (M5)  
⑦ Washer (W5)

##### Vertical

**1** Remove the springs on both sides of the main unit, and hang them again (as shown in the figure). Attach the ① changer mounting fitting on the changer and temporarily fix it on the ② changer mounting plate.

⑤ Screw (M5 x 12)  
⑥ Nut (M5)  
① Changer mounting fitting  
② Changer mounting plate

Under the carpet

**2** Peel off the released paper of the ② changer mounting plate and affix it on the mounting place under the rivet.

If necessary, cut off the plate.

**3** Detach the unit only.

**5** Fix the changer with ⑥ nuts.

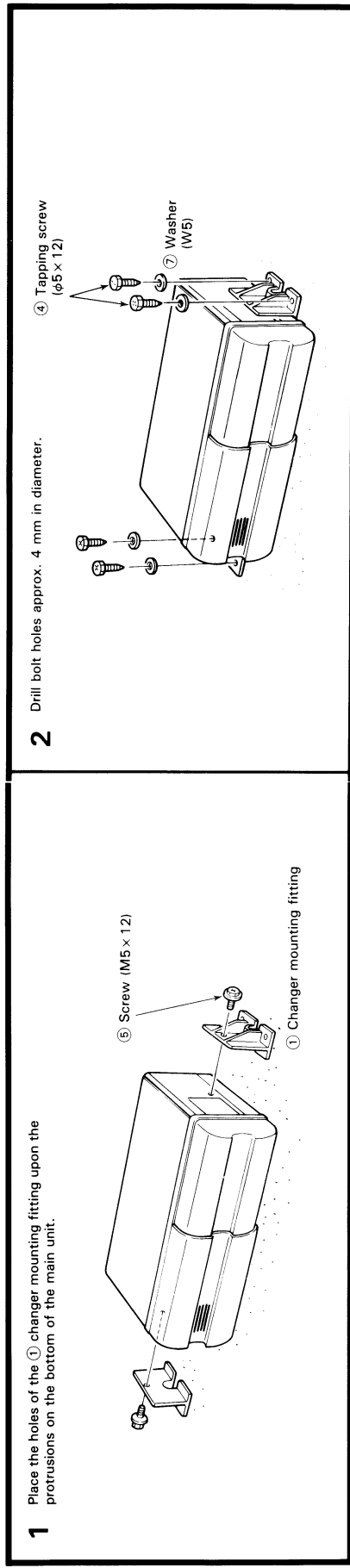
⑥ Nut (M5)  
⑦ Washer (W5)



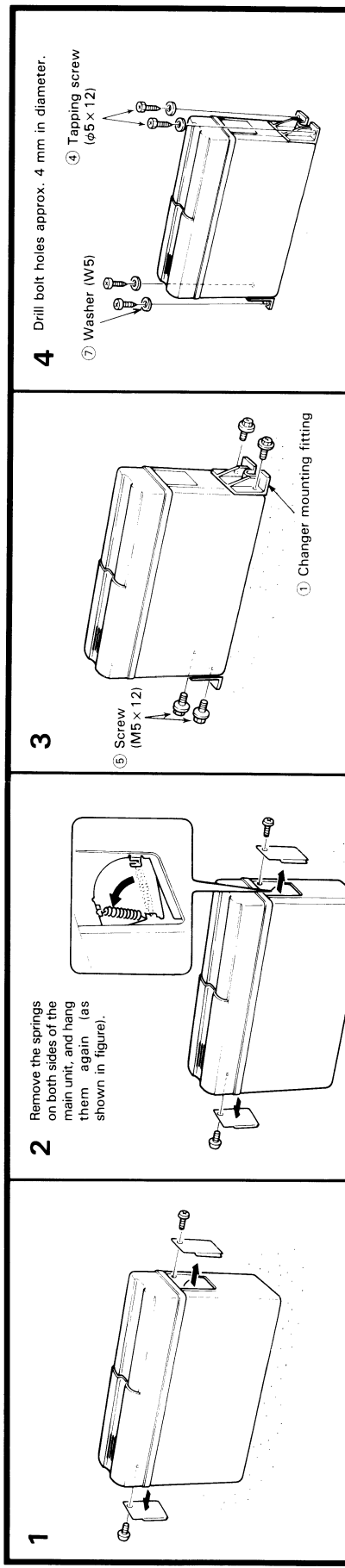
# INSTALLATION

## Mounting diagram 2

### Horizontal



### Vertical



#### CAUTION

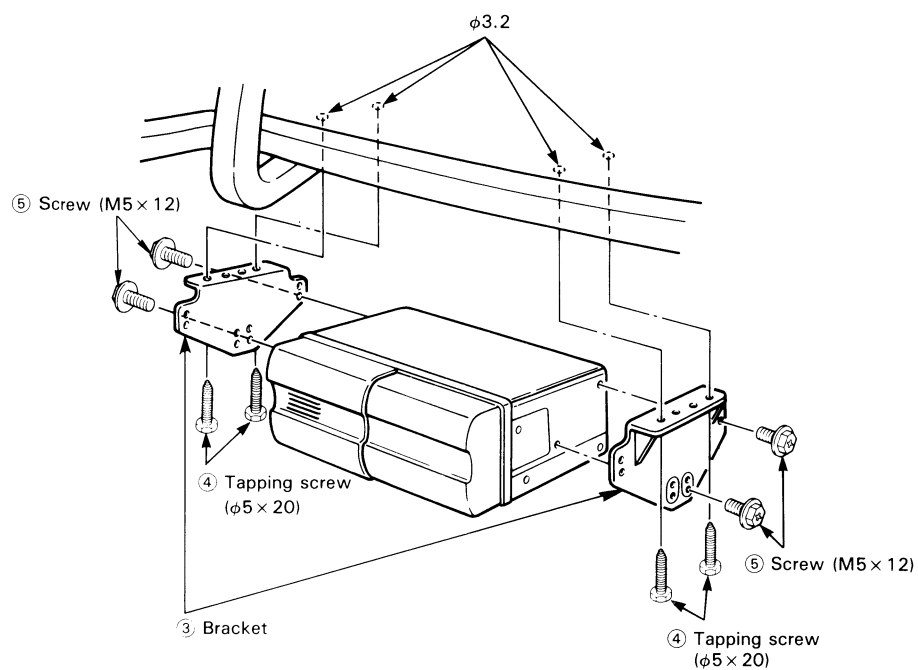
When making the hole, make sure not to damage the fuel tank, brake tube, wiring harnesses, etc. on the other side.

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## HOW TO INSTALL THE CHANGER

### Mounting diagram 3

(In case of hanging in the trunk)

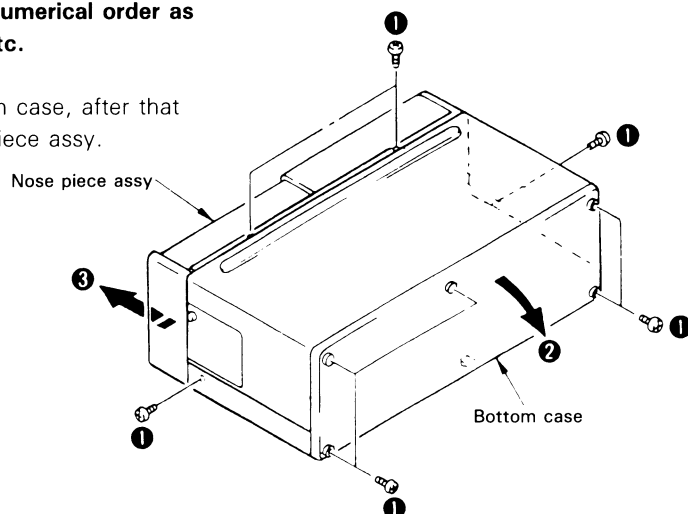


## DISASSEMBLY FOR REPAIR

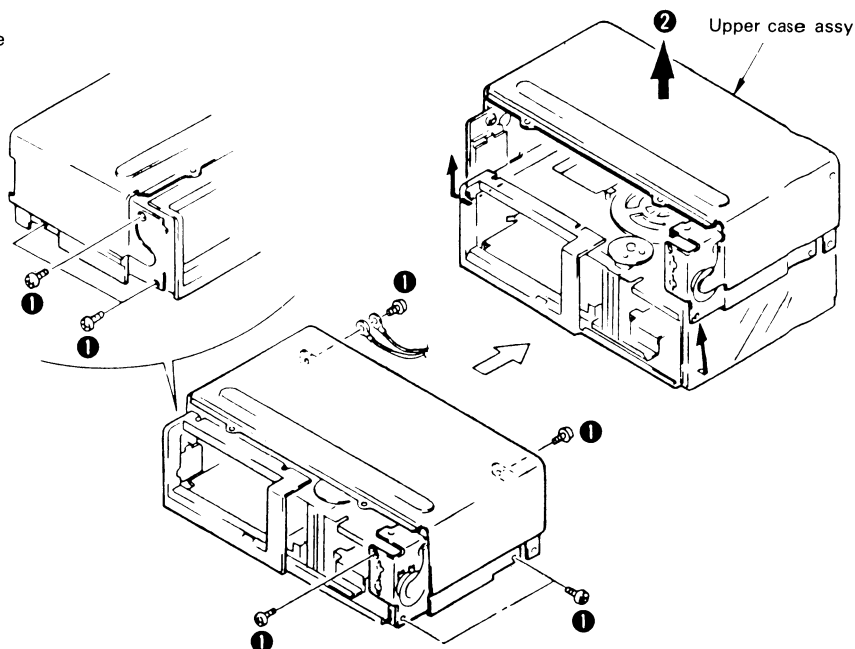
- Remove parts in numerical order as indicated by ❶, etc.

### Bottom Case:

Remove the bottom case, after that remove the nose piece Assy.

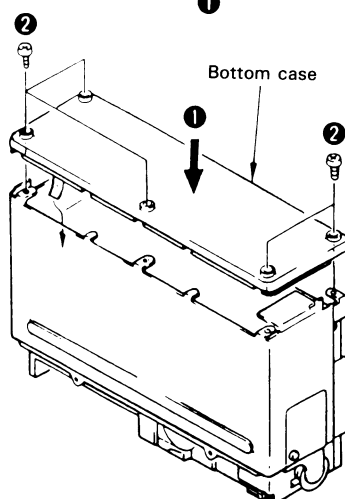


Upper case



### Precaution on assembling:

First install the bottom case, next the nose piece Assy.



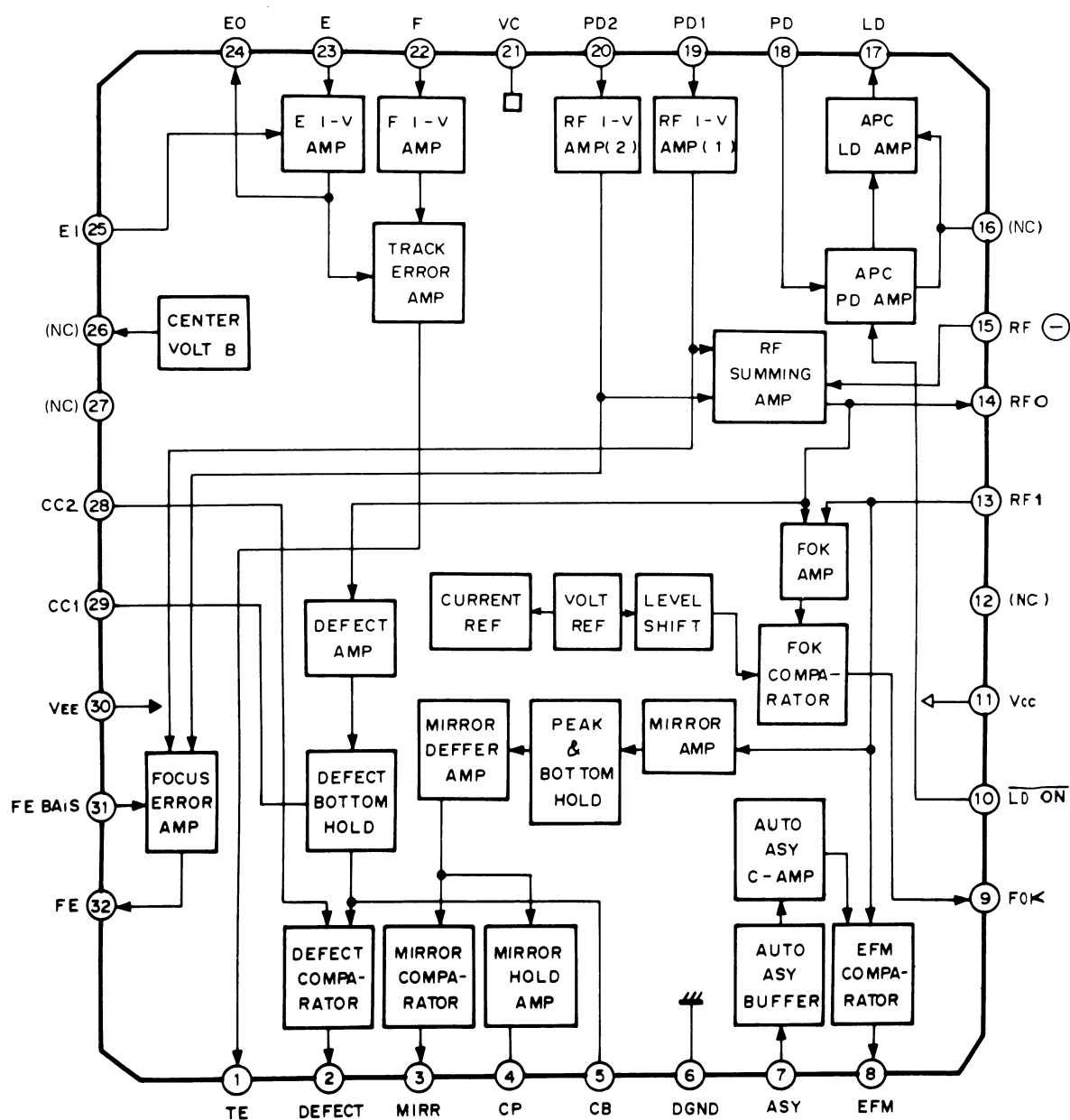
# KDC-C300

## CIRCUIT DESCRIPTION

### IC1: CXA1081Q RF amplifier

The CXA1081Q supplies the following functions as required for controlling the RF amp in the compact disc player.

- RF amp
- Focusing error amp
- Tracking error amp
- APC circuit
- Auto asymmetry control amp
- Focus OK detection circuit
- Mirror detection circuit
- Defect detection circuit
- EFM comparator



## CIRCUIT DESCRIPTION

## Explanation of terminals

Terminal No.	Terminal name	I/O	Function
1	TE	O	Tracking error amp output pin.
2	DEFECT	O	Defect comparator output pin. (DC voltage: connected to a 10 k $\Omega$ load).
3	MIRR	O	Mirror comparator output pin. (DC voltage: connected to a 10 k $\Omega$ load).
4	CP	I	Mirror hold capacitor output pin. Mirror comparator non-invert input.
5	CB	I	Defect bottom hold capacitor connect pin.
6	DGND	—	Connected to GND when using a positive (+)/negative (–) dual-voltage power supply. Connected to GND (V <sub>EE</sub> ) when using a single-voltage power supply.
7	ASY	I	Auto asymmetry control input pin.
8	EFM	O	EFM comparator output pin. (DC voltage: connected to a 10 k $\Omega$ load).
9	FOK	O	FOK comparator output pin. (DC voltage: connected to a 10 k $\Omega$ load).
10	LD ON	I	LD ON/OFF select pin. (DC voltage: when LD ON).
11	V <sub>CC</sub>	—	Positive power supply.
13	RF <sub>I</sub>	I	Input pin of the C-coupled signal output from the RF summing amp.
14	RF <sub>O</sub>	O	Check point of eye pattern for the RF summing amp output pin.
15	RF $\ominus$	I	RF summing amp feedback input pin.
16	N.C.	—	
17	LD	O	APC LD amp output pin. (DC voltage: PD open in N-sub mode)
18	PD	I	APC PD amp input pin. (DC voltage: open)
19	PD1	I	RF I-V amp (1) invert input pin. Current input by connecting to PIN diode A + C.
20	PD2	I	RF I-V amp (2) invert input pin. Current input by connecting to PIN diode B + D.
21	VC	—	Connected to GND when using a positive (+)/negative (–) dual-voltage power supply. Connected to VR (pin 14) when using a single-voltage power supply.
22	F	I	F I-V amp invert input pin. Current input by connecting to PIN diode F.
23	E	I	E I-V amp invert input pin. Current input by connecting to PIN diode E.
24	EO	O	E I-V amp output pin.
25	EI	I	E I-V amp feedback input pin. For E I-V amp gain adjustment.
26	N.C.	—	
27	N.C.	—	
28	CC2	I	Input pin of the C-coupled signal output from the defect bottom hold.
29	CC1	O	Defect bottom hold output pin.
30	V <sub>EE</sub>	—	Connected to the negative power supply when using a positive (+)/negative (–) dual-voltage power supply. Connected to GND when using a single-voltage power supply.
31	FE BIAS	I	Bias pin at the focus error amp non-invert side. For CMR adjustment of the focus error amp.
32	FE	O	Focus error amp output pin.

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## CIRCUIT DESCRIPTION

### IC2: CXA1182Q Servo signal processor for the CD

#### General

The CXA1082AQ is a bipolar IC developed for servo control in Compact Disc players.

#### Features

- Operates on a signal +5 V power supply as well as on a  $\pm 5$  V dual-voltage power supply.
- Low power consumption (165 mW with  $\pm 5$  V, 100 mW with +5 V).
- Same servo function as CX20108 (focusing, tracking, sled servo)
- Built-in auto sequencer.
- Built-in spindle servo LPF.
- Built-in loop filter and VCO for an EFM clock generating PLL.
- A minimum of external parts required.
- Sled overrun prevention circuit.
- Disc defect treatment circuit.
- Anti-shock circuit
- Linear motor feed for high-speed access.

- Shared use of a serial data bus with the CX23035 and CXD1135Q.
- The microprocessor and software both have upward compatibility with the CX20108.
- The pulse height of the focusing search, track jump, and sled kick can be set with externally connected resistors.

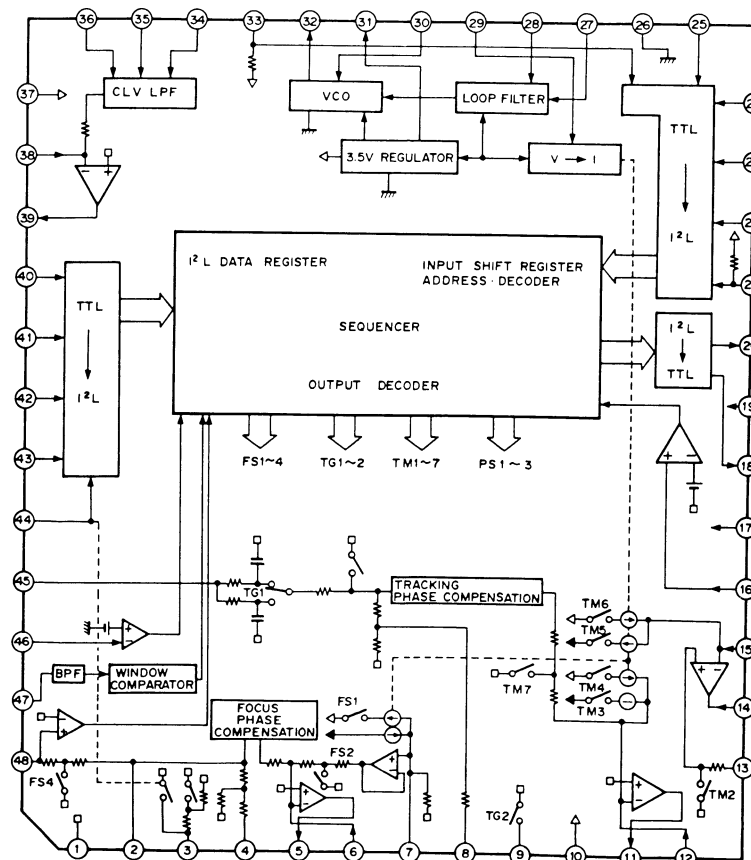
#### Functions

- Focusing servo control
- Tracking servo control
- Sled servo control
- Spindle servo
- Low Pass Filter, drive amplifier
- EFM clock generating PLL
- Loop filter: 8.64 MHz VCO
- Auto sequencer
- Incorporating a RAM

#### Structure

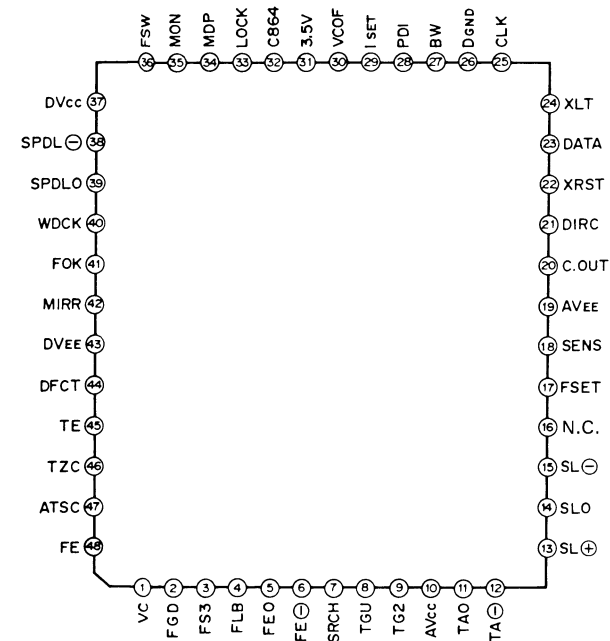
Bipolar silicon monolithic IC

#### Block diagram



CIRCUIT DESCRIPTION

Pin configuration



Terminal explanations

Terminal No.	Terminal name	Function
2	FGD	To lower the high frequency gain of the focus servo, insert a capacitor between this pin and pin 3.
3	FS3	The high frequency gain of the focus servo is selected by switching FS3 ON/OFF.
4	FLB	Time constant external connect pin, for boosting the focus servo low frequencies.
5 11 14 39	FEO TAO SLO SPDLO	Power transistor drive op amplifier output pins.
6	FE $\ominus$	Focus amplifier inverted input pin.
7	SRCH	Time constant external connect pin, for creating the focus search waveform.
8	TGU	Time constant external connect pin, for selecting the tracking high frequency gain.
9	TG2	Time constant external connect pin, for selecting the tracking high frequency gain.
12	TA $\ominus$	Tracking amplifier inverted input pin.
13	SL $\oplus$	Sled amplifier non-inverted input pin.
15	SL $\ominus$	Sled amplifier inverted input pin.

Terminal No.	Terminal name	Function
16	N.C.	—
17	FSET	Setting pin for the focus tracking phase peak value compensation, and fo of the CLV LPF.
18 20	SENS C.OUT	Output pins for an interface with a microprocessor.
21 22 23 24 25 33	DIRCT XRST DATA XLT CLK LOCK	Input pins for an interface with a microprocessor. A 47-kohm pull-up resistor is only incorporated in pins 21 and 33.
27	BW	Loop filter time constant external connect pin.
28	PDI	Input pin for the phase comparator output PDO of CXD23035/ CXD1135.
29	ISET	Inputs a current which determines the level of the focus search, track jump, and sled kick.
30	VCOF	The self-advancing frequency of the VCO is almost proportional to the resistance between this pin and pin 31.
32	C864	8.64 MHz VCO output pin.
34	MDP	CXD23035/CXD1135 MDP pin connect pin.
35	MON	CXD23035/CXD1135 MON pin connect pin.
36	FSW	LPF time constant external connect pin, for the CLV servo error signal.
38	SPDL $\ominus$	Spindle drive amplifier inverted input pin.
40 41 42 44	WDCK FOK MIRR DFCT	Input pins for an interface with a microprocessor.
45	TE	Tracking error signal input pin.
46	TZC	Tracking zero-cross comparator input pin.
47	ATSC	Window comparator input pin for ATSC detection.
48	FE	Focusing error signal input pin.

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## CIRCUIT DESCRIPTION

Explanation on the Functions of the Terminals of IC503 CX7991

Terminal No.	Explanation on Terminal
1~8	Parallel output terminal which takes in and outputs the condition of the internal register in the strobe signals. When the set signal is entered, it outputs "1"; when the reset signal is entered, it outputs "0".
9,11~13	Parallel output terminal which takes in and outputs the condition of the internal register in the strobe signals. When the set or reset signal is entered, the outputs is in the high impedance and the unit is in the output condition with the strobe signals.
14	Serial data output terminal.
15	Set signal input terminal which is "L" active. When this terminal is set to "L", the latch is set regardless of the condition of the internal register, and the unit outputs "1" to the terminals 1~8, and the terminals 9, 11~13 are in high impedance.
16	Reset signal input terminal which is "L" active. When this terminal is set to "L", the latch is set regardless of the condition of the internal register, and the unit outputs "0" to the terminals 1~8, and the terminals 9, 11~13 are in high impedance.
17	Strobe signal input terminal which is "H" active. When this terminal is set to "H", the condition of the internal register is transferred to latch.
18	Serial data input terminal which inputs the serial date from an external unit.
19	Clock signal input terminal which takes in the data at start-up.
10	GND
20	Power source



## MECHANISM DESCRIPTION

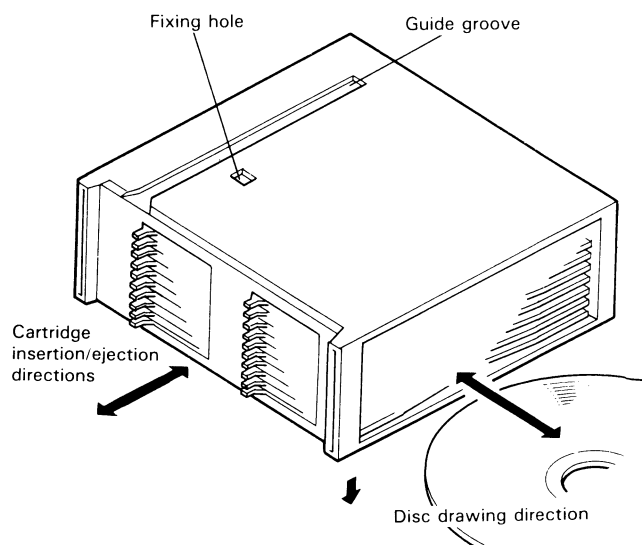
### 1. Structure of mechanism

Roughly speaking, the mechanism consists of the following four sections.

- (1) Section which loads, ejects and holds the cartridge.
- (2) Section which pulls out a disc from the cartridge and places it above the spindle motor. (This part also performs cartridge unloading, which consists of returning the disc to the specified position in the cartridge.)
- (3) Section which moves up/down the section mentioned in (2), in order to place the disc on the turntable and to move it to the specified position of the cartridge when unloading it.
- (4) Section consisting of the sled motor, spindle motor and pickup used for playing the disc.

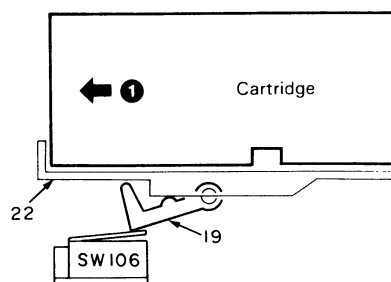
### 2. Cartridge loading and ejection operations

A guide groove and a square hole are located on the bottom side of the cartridge.

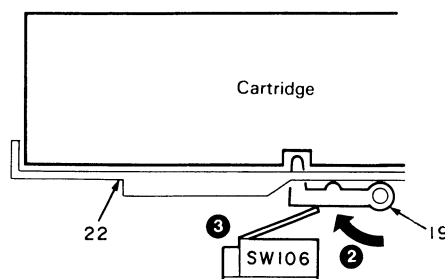


- (1) When the cartridge is inserted, the projection on the mechanism (roller) is applied on the guide groove, guided by it and pushed in (1).

When the projection is pushed in until the specified position, its hook is engaged with the position of the fixing hole so the cartridge is fixed (2).



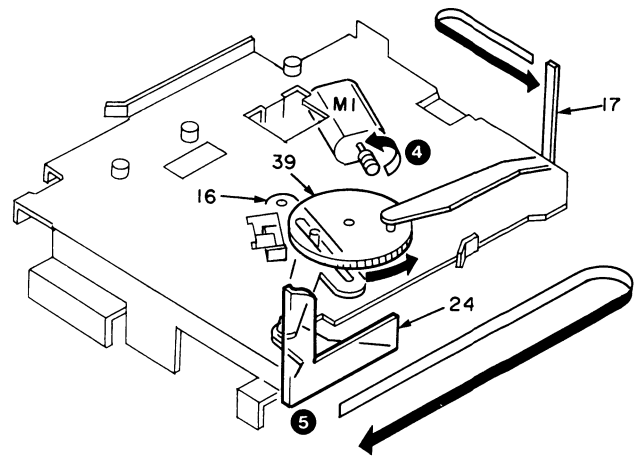
The cartridge insertion is a manual operation, and it is fixed by the hook which is moved up when the lever (22) is pushed. When the hook moves up, it turns ON a switch (SW106) interlocked with it and the presence of the cartridge is detected by the switch (3).



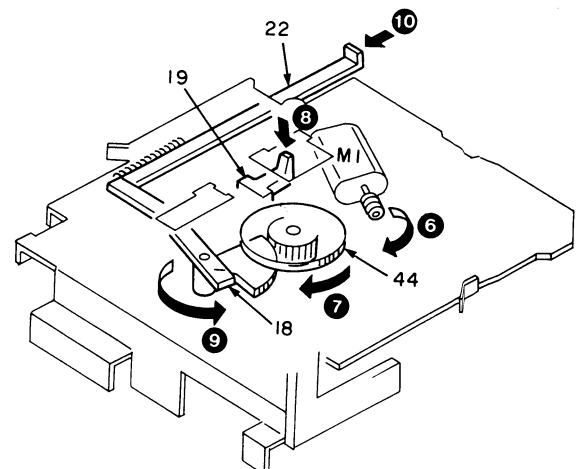
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## MECHANISM DESCRIPTION

When the switch (SW106) is turned ON for the first time, the motor (M1) rotates once in the CW direction (4). This CW rotation of the motor (M1) causes the lever (16), which is used to place the disc completely inside the cartridge, to reciprocate once in front of the disc drawing slot on the cartridge (5).



- (2) The cartridge ejection is performed by the CCW rotation of the motor (M1) (6). The motor rotation is transmitted to the cam (44) (7), the hook (19) is disengaged from the fixing hole on the cartridge by the movement of the cam surface (8), a force in the ejection direction is applied to the lever (22) by the Lever Ass'y (18) interlocked with the cam (9), and the cartridge is pushed out (10).



### Functions of the motor and switches

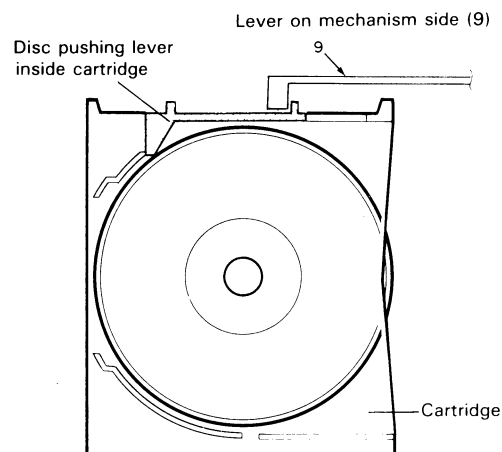
- Motor (M1): CW rotation moves the lever used to place the disc completely in the cartridge.
- Switch (SW105): Detects the home position of the lever (16) by means of the cam (39).
- Motor (M1): CCW rotation rotates the cam (44) used to push out the cartridge and disengage the hook.
- Switch (SW106): Detects the presence of cartridge (LOADING/EJECT).
- Switch (SW107): Detects the home position of the ejection cam.

## MECHANISM DESCRIPTION

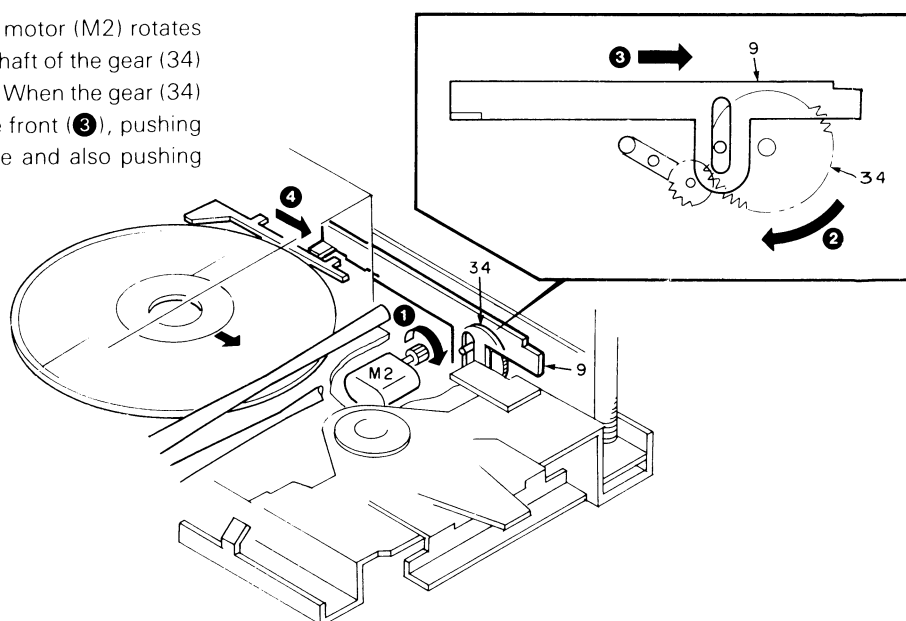
### 3. Disc loading and ejection with respect to the cartridge

A lever for pushing out the disc is located inside the cartridge, and two sections of the lever are projected outside the cartridge.

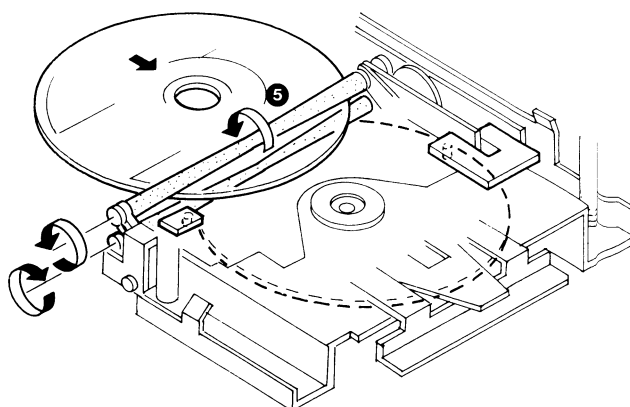
The lever (9) is placed in front of one of the projections. However, it can also move up/down when all discs are inside the cartridge or when a disc has been loaded on the mechanism.



For loading a disc on the mechanism, the motor (M2) rotates (1), also rotating the gear (34) (2). The shaft of the gear (34) is inserted in the long hole on the lever (9). When the gear (34) rotates, the lever (9) is pushed toward the front (3), pushing the disc pushing lever inside the cartridge and also pushing the disc toward the front (4).



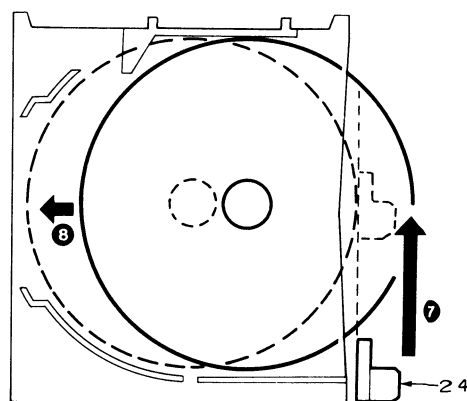
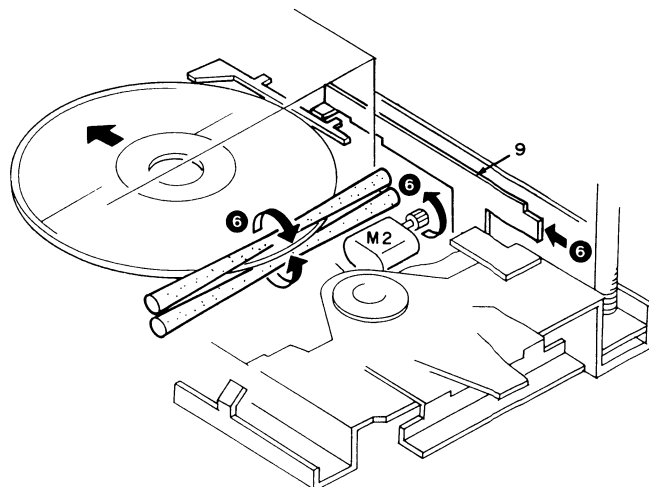
By means of a pair of rollers inside the mechanism which are rotated by the motor (M2), the disc is transported to the specified position with the same procedure as the KDC-80 and 90R (5).



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## MECHANISM DESCRIPTION

The disc is ejected from the mechanism to the cartridge in the reverse way to the above operations (6). However, the lever (9) on the mechanism side moves only in one direction so it cannot return the disc pushing lever inside the cartridge. The disc pushing lever is returned by the disc itself. At the final stage on the rollers, it is pushed into the final position by the lever provided on the opening surface of cartridge (7) (8).  
(Motor (M1) = CW, slider ass'y (24) moved)



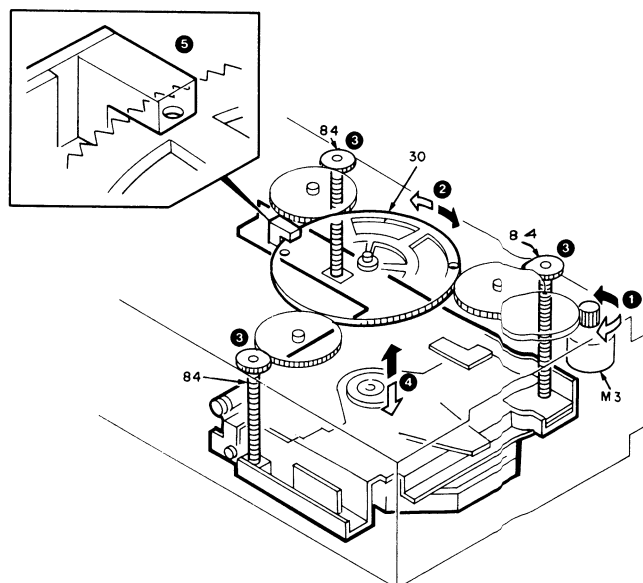
### 4. Up/down movement of loading mechanism

The initial position of the loading mechanism is the PLAY position, with which the disc is placed on the spindle.

The whole of the mechanism is moved up/down by the motor (M3) (1), the rotation of which is transmitted through the gear (62) (2), and to the 3 screws (84) (3) (4).

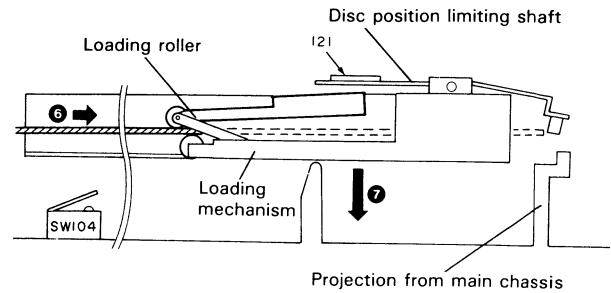
The loading positions of the 10 discs are detected by detecting the 2 holes of the gear (30) (5).

(Motor (M3) CCW→holes detected).

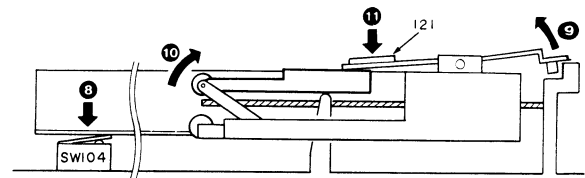


## MECHANISM DESCRIPTION

After the disc is loaded in the specified position (⑥), the loading mechanism moves down (⑦), and enters the PLAY condition when the switch (SW104) is turned ON (⑧). At this time, the disc insertion position limiting shaft (⑨) and roller are separated up and down from the disc (⑩).



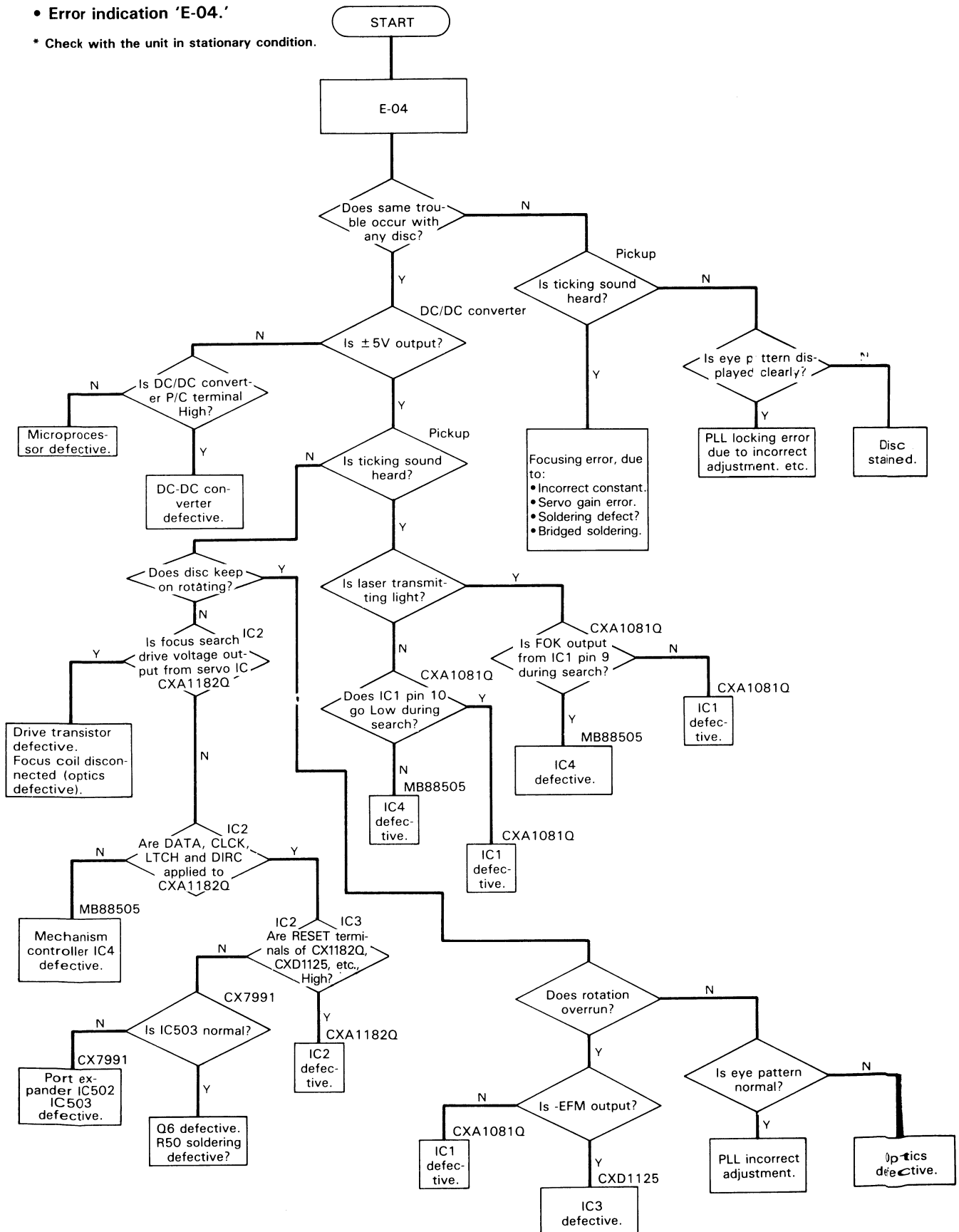
The actual playback becomes possible when the plate (121) is attracted magnetically to the turntable on the spindle motor. For ejecting the disc, the loading mechanism is moved up by the loading and empty operation. The cartridge position is detected when the switch (SW102) is turned ON. The optics system design such as the disc spindle is the same as the KDC-80 and 90R including the constants used.



## TROUBLESHOOTING

### • Error indication 'E-04.'

\* Check with the unit in stationary condition.



## ADJUSTMENT

### [LARGE ELEVATOR GEAR POSITION (LOCATION 10.5) ADJUSTMENT]

1. Move the middle elevator gear in the arrowed direction and place the top plate at the position where there are no clearances between the bottom face of the top plate and the top edges of the three claws.

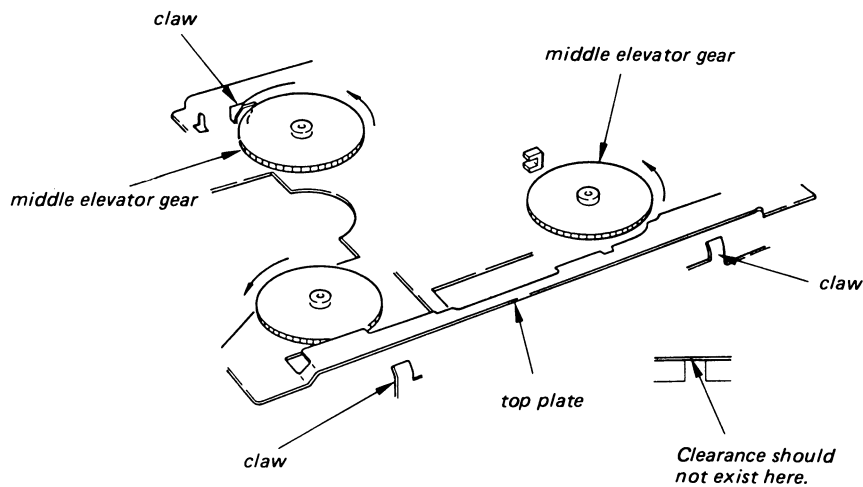
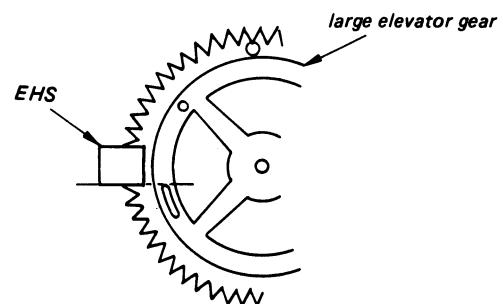
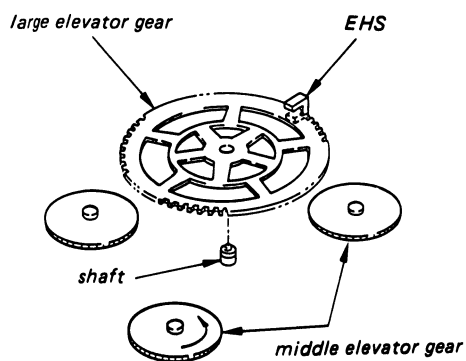


Fig. 1

2. Put the large elevator gear on the shaft of the top plate taking care not to move the middle elevator gears. The large elevator gear should be fastened by the top plate and EHS protrusion and should position in the relationship with the EHS as shown in Fig. 1.
3. After the placing, fix the large elevator gear with a retaining ring.



Edge of EHS protrusion and edge of protrusion on the large elevator gear should be aligned as shown.

Fig. 2

ADJUSTMENT

[HOMING ADJUSTMENT]

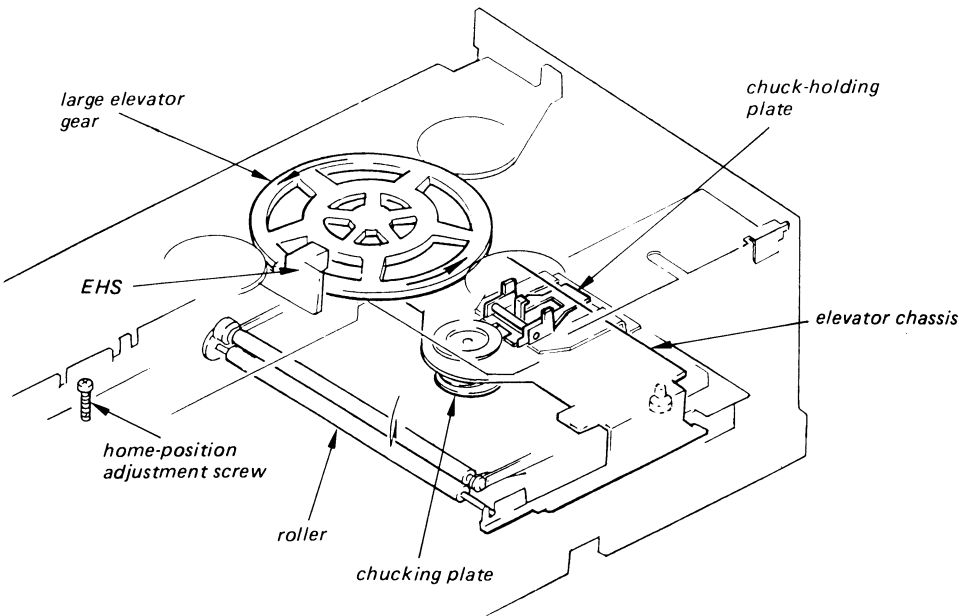


Fig. 3

- 1. Put the disk magazine containing several disks in the changer.
- 2. Initialize the changer.
- 3. Pull off the first disk.
- 4. Wait until the elevator lowers down to the home position.
- 5. Move the large elevator gear so that the clearance between the inner edge face of the chucking plate and edge of the top face of the stainless chuck-holding plate becomes in 1.5 mm (1/16 inches) as shown in Fig. 4.
- 6. Make a dot marking on the large elevator gear as shown in Fig. 5.
- 7. Re-put the first disk in the disk magazine.
- 8. Pull off the first disk again. The dot marking made in the step 6 above should position as shown in Fig. 5.
- 9. Fine adjust the position of the large elevator gear with the home-position adjustment screw shown in Fig. 3.

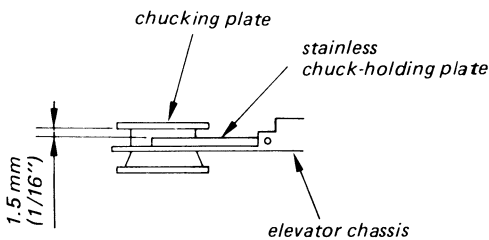
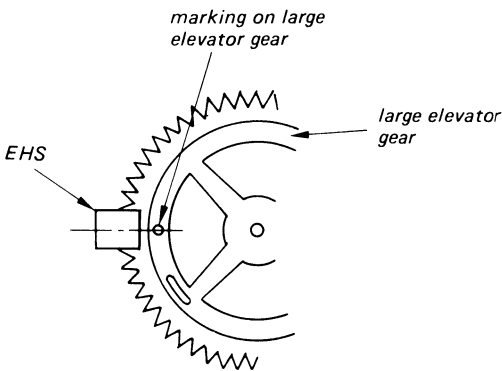


Fig. 4



Note:  
Make a marking near and  
on the center line of the  
EHS sensor.

Fig. 5

Adjustment Screw Position	Large Elevator Gear Position Displacement
One (1) turn in clockwise	15 (fifteen) degrees clockwise
One (1) turn in counterclockwise	15 (fifteen) degrees counterclockwise



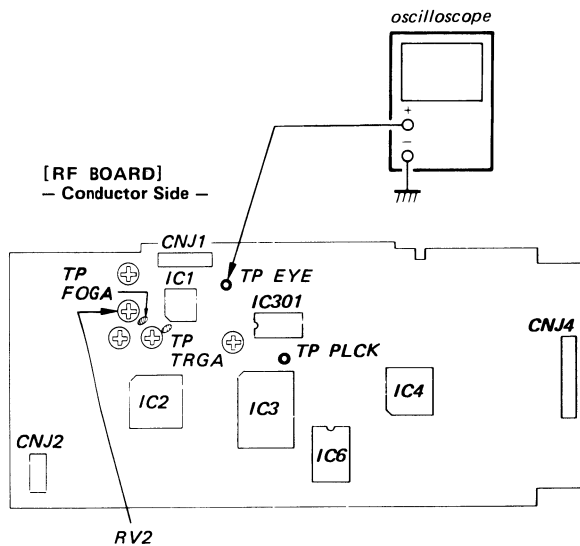
## ADJUSTMENT

1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18".

3. Unsolder the small shield plate from the RF board.
4. Power supply voltage: DC 14.4 V (more than 2A).

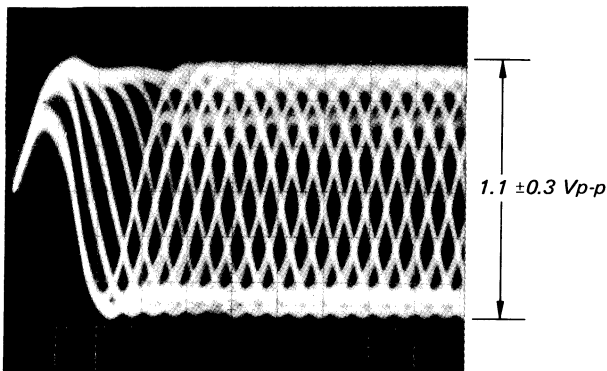
### 1. Focus Offset Adjustment

Procedure:



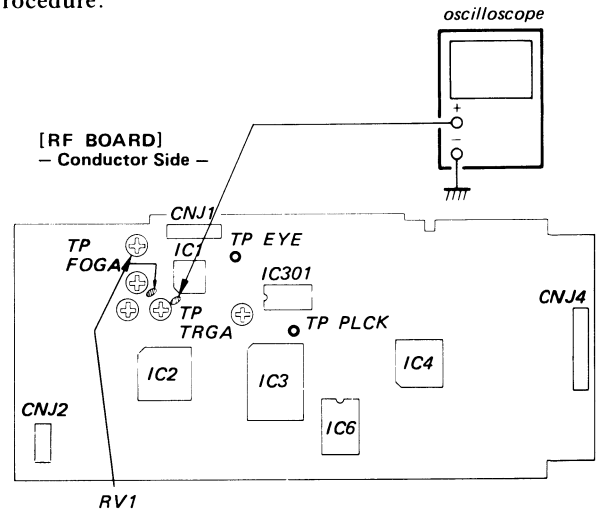
1. Connect the oscilloscope to RF board test point **EYE**.
2. Put the set into play mode by loading the disc.
3. Adjust main board RV2 so that the oscilloscope waveform eye pattern is good.  
(A good eye pattern means that the diamond shape (◇) in the center of the oscilloscope can be clearly distinguished.)

Volt/Div: 200 mV  
Time/Div: 0.5 μSec



### 2. Tracking Offset Adjustment

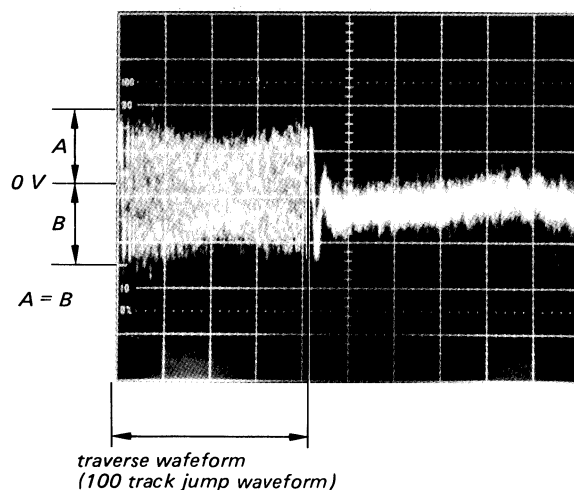
Procedure:



1. Connect the oscilloscope to RF board test point **TRGA**, pin ① of IC1.
2. Put the set into play mode by loading the disc.
3. Press the ◀◀ or ▶▶ (or ◀, ▶) button, then check the traverse waveform\*.
4. Adjust RV1 (main board) so that oscilloscope reading is symmetrical in relation to 0 V.

\*Traverse waveform: This is the tracking error waveform appears when crossing the track.

Volt/Div: 0.5 V  
Time Div: 2 mSec  
Center 0 V



## ADJUSTMENT

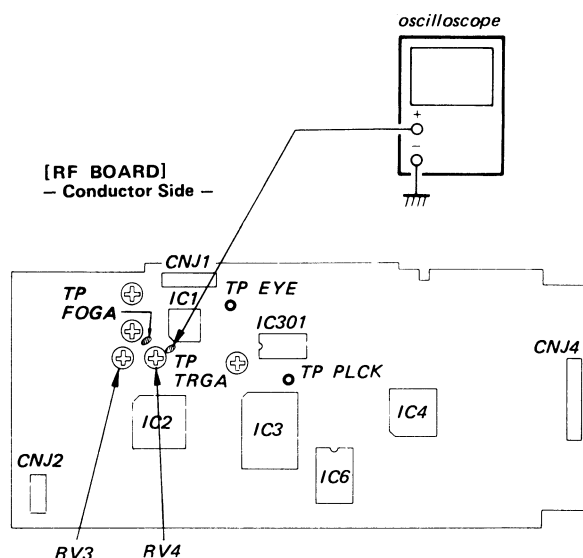
### 3. Tracking Gain Adjustment (coarse adjustment)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV4

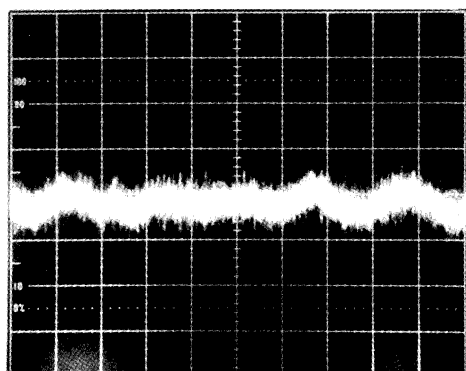
This adjustment should be performed after focus offset and tracking offset adjustments are completed.

#### Procedure:

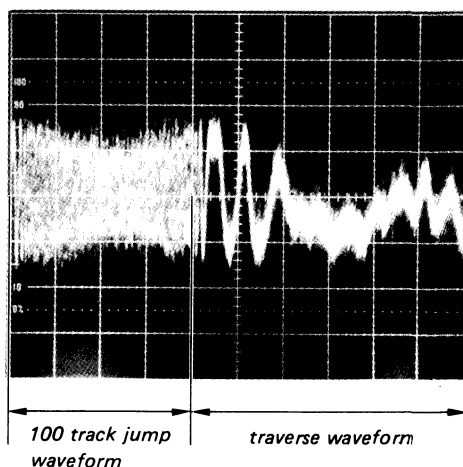


1. Connect the oscilloscope to RF board test point **TRGA**.
2. Put the set into play mode by loading the disc.
3. Turn RF board RV4 from clockwise stop, then check the oscilloscope waveform. Fix RV4 at the position where the waveform disappears.

Volt/Div: 0.5 V  
Time/Div: 2 mSec



waveform when the wave appears

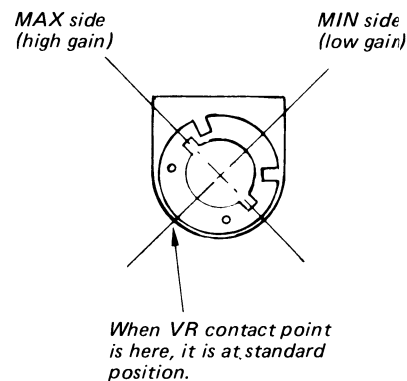


- When gain is lowered . . .

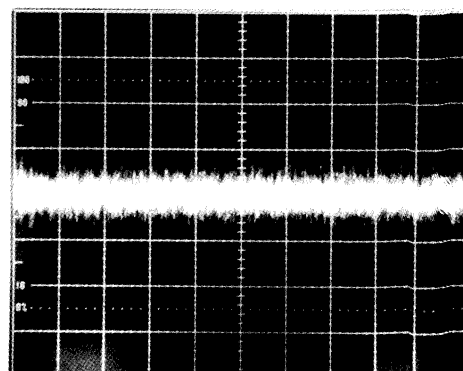
When selecting by pressing [◀◀ or ▶▶] button, brake application is poor because of low tracking gain. Therefore, the traverse waveform appears after the 100 track jump waveform, then the selection will be located slowly.

- When gain is highered . . .

Operation noise is heard due to a scratch or dust, then operation will be instability.



RV3 standard position



waveform when the wave disappears

## ADJUSTMENT

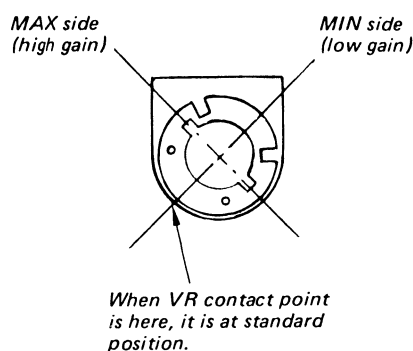
### 4. Focus Gain Adjustment (coarse adjustment)

This adjustment is to be performed when replacing the following parts.

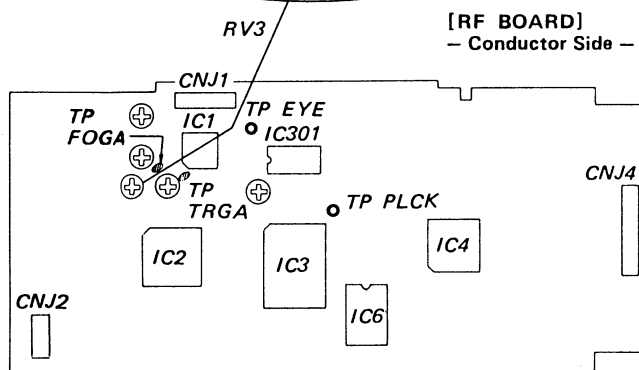
- Optical Pick-up Block
- RV3

#### Procedure:

1. Set RV3 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis device. If there is, turn RV3 slightly clockwise.



RV3 standard position

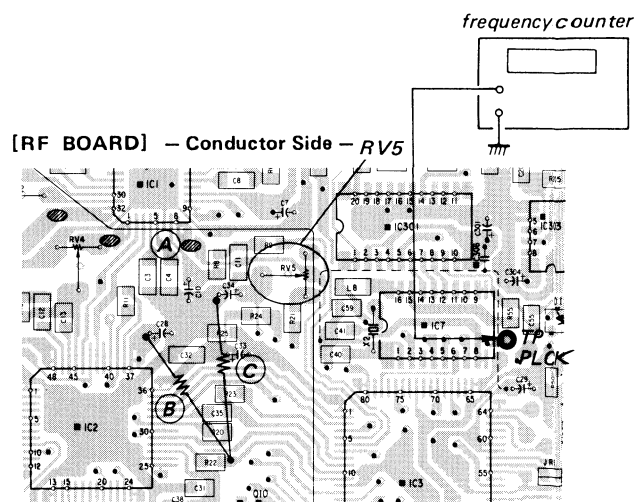
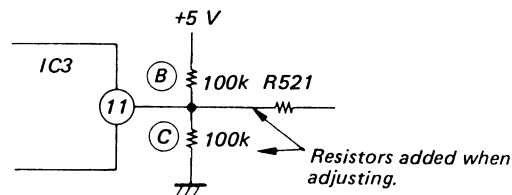


- When gain is highered . . .  
The set does not play because of no focus operation.
- When gain is highered . . .  
Operation noise is heard due to a scratch or a dust, then operation will be unstable.

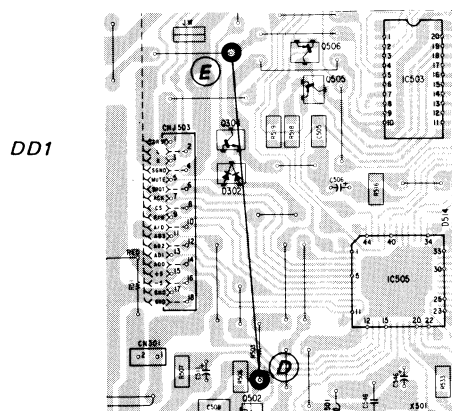
### 5. PLL Freerun Frequency Adjustment

#### Procedure:

1. Unsolder the solder bridge at (A).  
(IC3 pin (5) is opened)
2. Connect 100 kΩ resistors to (B), (C).  
(This is to set the IC3 pin (11) voltage to 2.5 V)
3. Install a test jumper wire between (D) and (E) on the jack board to pull up the P/C terminal of the DC-DC converter (F).
4. Connect the frequency counter to RF board test point [PLCK] (IC3 pin (70)).
5. Turn the power switch on (Do not use the disc), then adjust RV5 so that the frequency is 4.3218 MHz  $\pm$  10 kHz.
6. After adjusting, reset 1, 2 and 3 as original.



#### [JACK BOARD] - Conductor Side -



VOLTAGE TABLES

RF BOARD

IC1

2	- 4.1V
4	- 0.3V
5	- 0.7V
7	2.4V
8	2.4V
9	4.8V
11	5V
14	0.8V
17	3.2V
18	- 4.9V
24	- 0.6V
30	- 5.1V

IC2

5	0.3V
7	0.7V
10	5V
17	- 4V
18	4.8V
19	- 5.1V
21	5V
22	4.9V
23	4.8V
24	5V
25	5V
27	1.9V
28	2V
29	2.2V
30	2.3V
31	3.6V
32	2.2V
33	5V
34	2.4V
35	4.9V
36	2.5V
37	5V
39	0.4V
43	- 5.1V

IC3

2	4.9V
3	2.4V
4	2.8V
5	2.4V
6	2.5V
7	5V
8	2.4V
9	2.1V
11	1.7V
13	5V
14	5V
15	4.8V
16	4.9V
17	0.1V
18	4.8V
20	5V
23	1.5V
24	0.1V
25	2.5V
28	5V
29 ~ 32	1.8V
33	5V
34 ~ 37	1.8V
39 ~ 48	2.5V
49	4.4V
50	2.7V
51	2.3V
53	2.2V
56,57	5V

IC4

12 ~ 16	5V
18	5V
20 ~ 25	4.9V
26	5V
27 ~ 29	4.9V
31	4.9V
32	5V
33 ~ 35	4.8V
36	2.3V
38	4.9V
44	2.5V
45	1.5V

IC5

1	4.6V
3	0.3V
4,5	- 5.1V
6	- 0.3V
11	- 0.1V
12,13	- 5.1V
14	0.1V

IC6

1 ~ 8	2.5V
9 ~ 17	1.8V
18	2.6V
19	2.5V
20	2.6V
21	4.4V
22,23	2.5V
24	5V

IC301

1	1.9V
4	4V
6,7	2.5V
9	2.3V
14	4V
20	1.9V

IC302

1	0.5V
2	0.5V
4	- 5V
6	0.5V
7	0.5V
8	5V

IC303

1	- 0.6V
4	- 5V
7	- 0.6V
8	4.9V

IC501

1	14.3V
3,4	0.4V
6	0.1V
7	14.3V
8	0.4V
9,10	0.4V
12	0.1V

IC502

1	4.9V
2	5V

IC503

9	4.8V
15	5.3V
16	4.8V
18,19	5V
20	5.3V

IC505

1	4.9V
2	5V
3	4.9V
5 ~ 11	4.9V
13 ~ 15	4.9V
17	5V
18	2.4V
21	5V
24,25	4.9V
26,27	0.1V
28	0.2V
29	0.1V
30	0.5V
31	0.1V
32	0.3V
40,41	5V

Q1

E	3.9V
C	1.8V
B	3.2V

Q2

E	-
C	- 5V
B	0.3V

Q3

E	-
C	4.6V
B	0.3V

Q4

E	-
C	- 5V
B	-

Q5

E	-
C	4.6V
B	-

Q9

E	-
C	-
B	2.6V

Q10

E	2.6V
C	-
B	-

Q101,201

E	-
C	-
B	- 4.4V

Q301

E	5V
C	- 4.4V
B	4.7V

Q302

E	-
C	4.7V
B	-

Q303

E	14.4V
C	14.4V
B	-

Q304

E	-
C	-
B	4.4V

Q305

E	-
C	0.01V
B	14.4V

Q502

E	5V
C	-
B	-

Q505,506

E	5V
C	5V
B	4.8V

Q511

E	0.3V
C	0V
B	0.3V

Q512

E	-
C	0V
B	3.2V

Q513

E	-
C	0.3V
B	-

Q515

E	-
C	0.1V
B	-

Q516

E	-
C	-
B	0.7V

Q517

E	0.1V
C	-
B	-

Q519

E	-
C	-
B	1.6V

Q520

E	0.1V
C	0.1V
B	-

Q523

E	-
C	-
B	0.6V

Q524

E	5V
C	5V
B	-

Q704

E	-
C	0.01V
B	4.9V

Q705

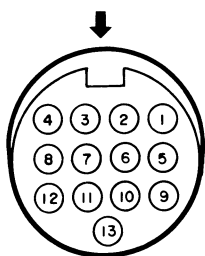
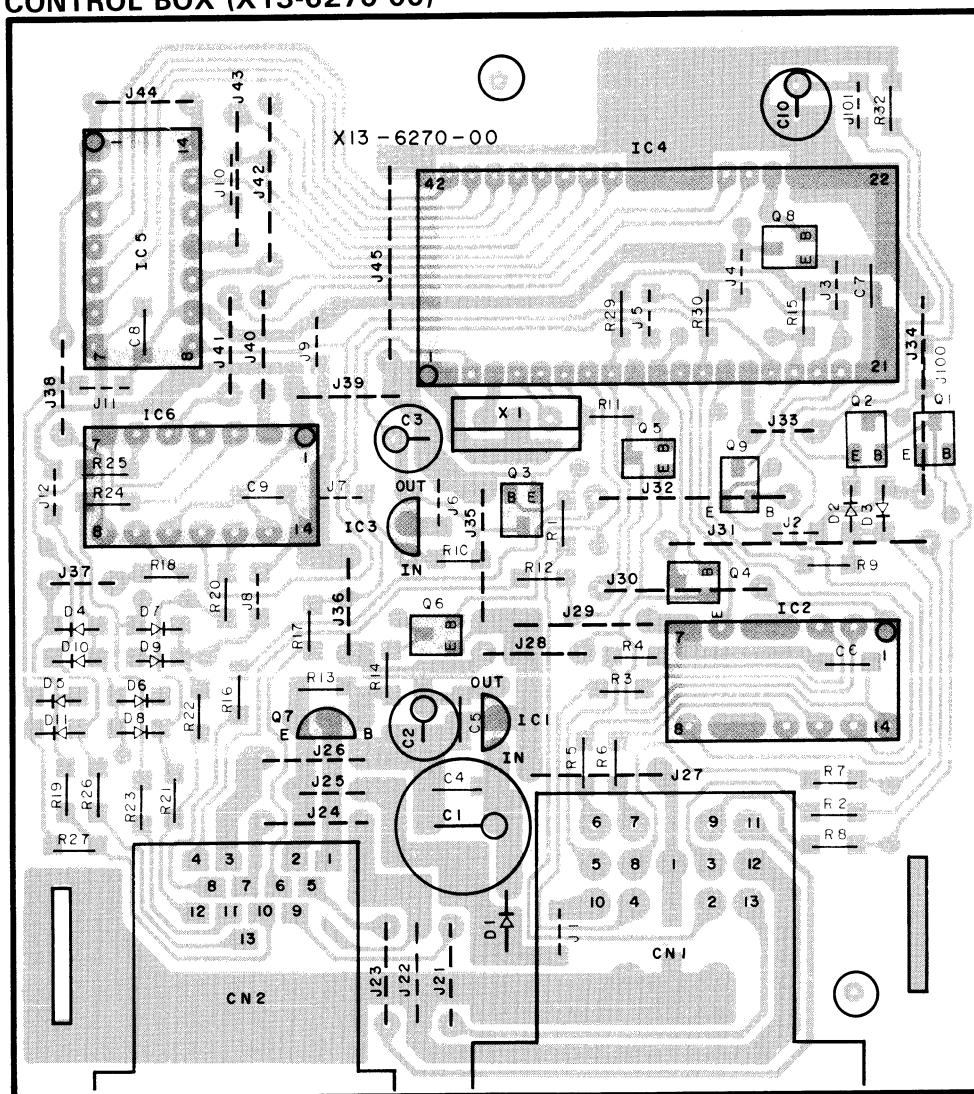
E	14.4V
C	14.3V
B	13.6V

Q707

E	5.4V
C	14.3V
B	6V

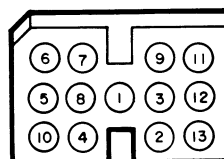
# PC BOARD (Component side view) (1/3)

## CONTROL BOX (X13-6270-00)



to CD CHANGER

1	ACC
2	B-UP
3	D-GND
4	DISP
5	Rch
6	CD RST
7	GND
8	MUTE
9	Lch
10	DATA IN
11	DATA OUT
12	CLK IN
13	CLK OUT



to CONTROL UNIT

1	GND
2	RST
3	MUTE
4	REQ UNIT
5	DATA IN
6	DATA OUT
7	REQ IN
8	CLK
9	CD CON
10	B-UP
11	Rch
12	GND
13	Lch

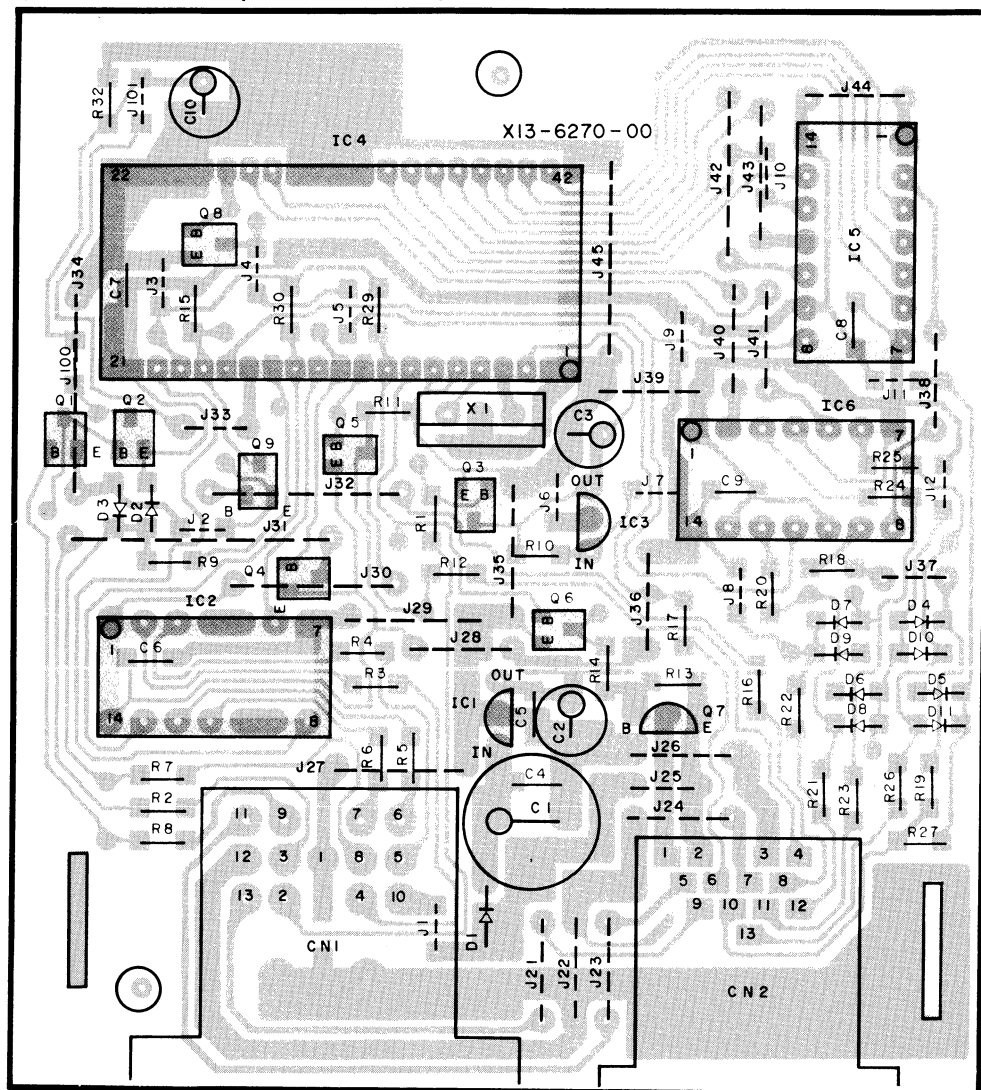
### CONTROL BOX

Ref. No.	Q	Address
IC	1	2D
	2	2D
	3	3C
	4	3C
	5	3C
	6	3B
	7	3B
	8	2D
	9	3C
1	Q	3C
2		3D
3		3B
4		2C
5		2B
6		3B

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (Foil side view) (1/3)

## CONTROL BOX (X13-6270-00)



### to CONTROL UNIT

1	GND
2	RST
3	MUTE
4	REQ UNIT
5	DATA IN
6	DATA OUT
7	REC IN
8	CLK
9	CD CON
10	B-UP
11	Rch
12	GND
13	Lch

### to CD CHANGER

1	ACC
2	B-UP
3	D-GND
4	DISP
5	Rch
6	CD RST
7	GND
8	MUTE
9	Lch
10	DATA IN
11	DATA OUT
12	CLK IN
13	CLK OUT

### CONTROL BOX

Ref. No.	Q	Address
IC		
1		2G
2		2G
3		3H
4		3G
5		2G
6		3H
7		3I
8		2G
9		3G
1		3H
2		3G
3		3H
4		2G
5		2I
6		3I

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (Component side view) (2/3)

OPTICAL DEVICE SECTION

【MOT FLEXIBLE BOARD】

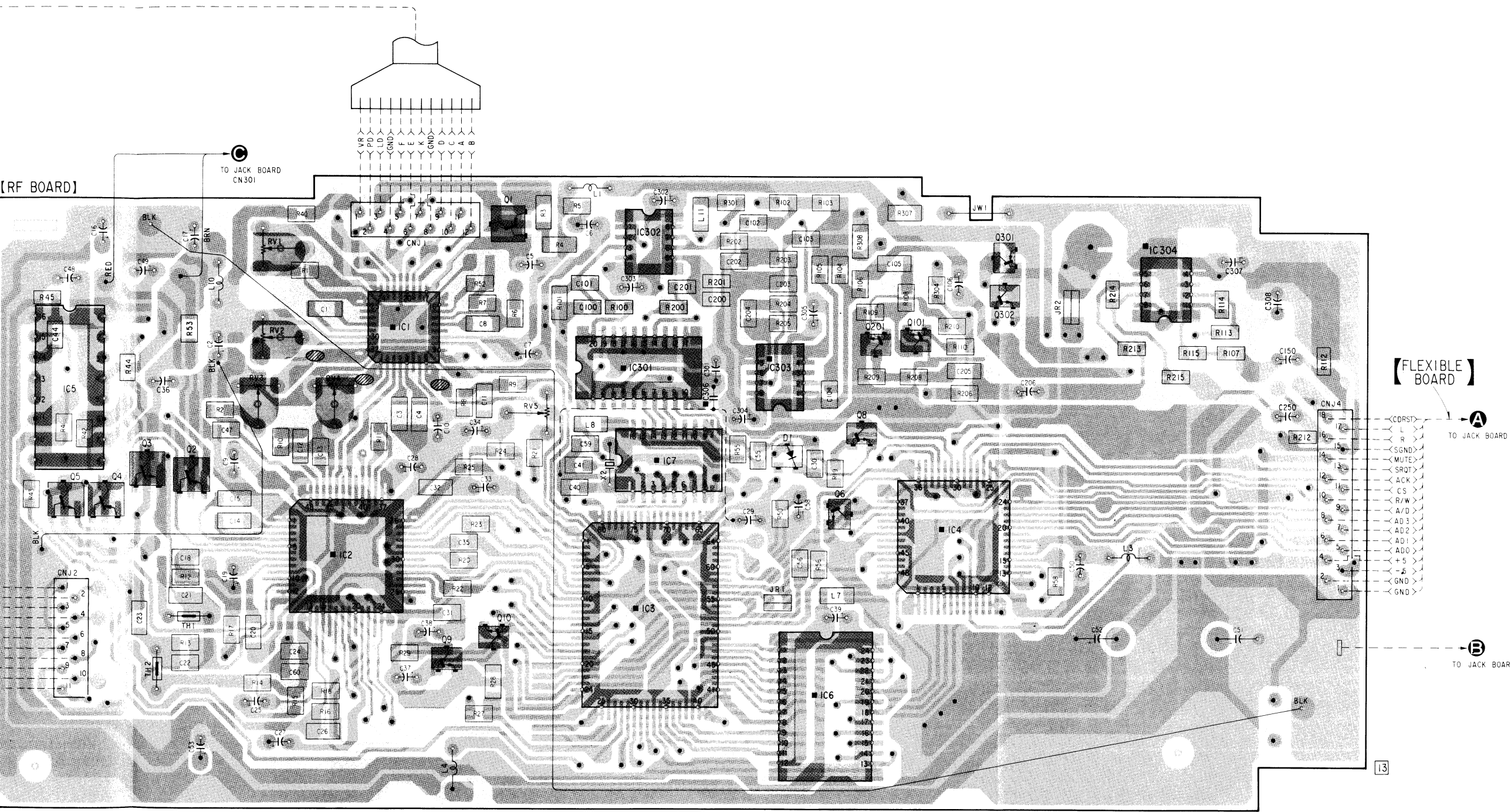
KSM-160BAN  
OPTICAL PICK-UP

M902  
SLED MOTOR

【RF BOARD】

TO JACK BOARD  
CN301





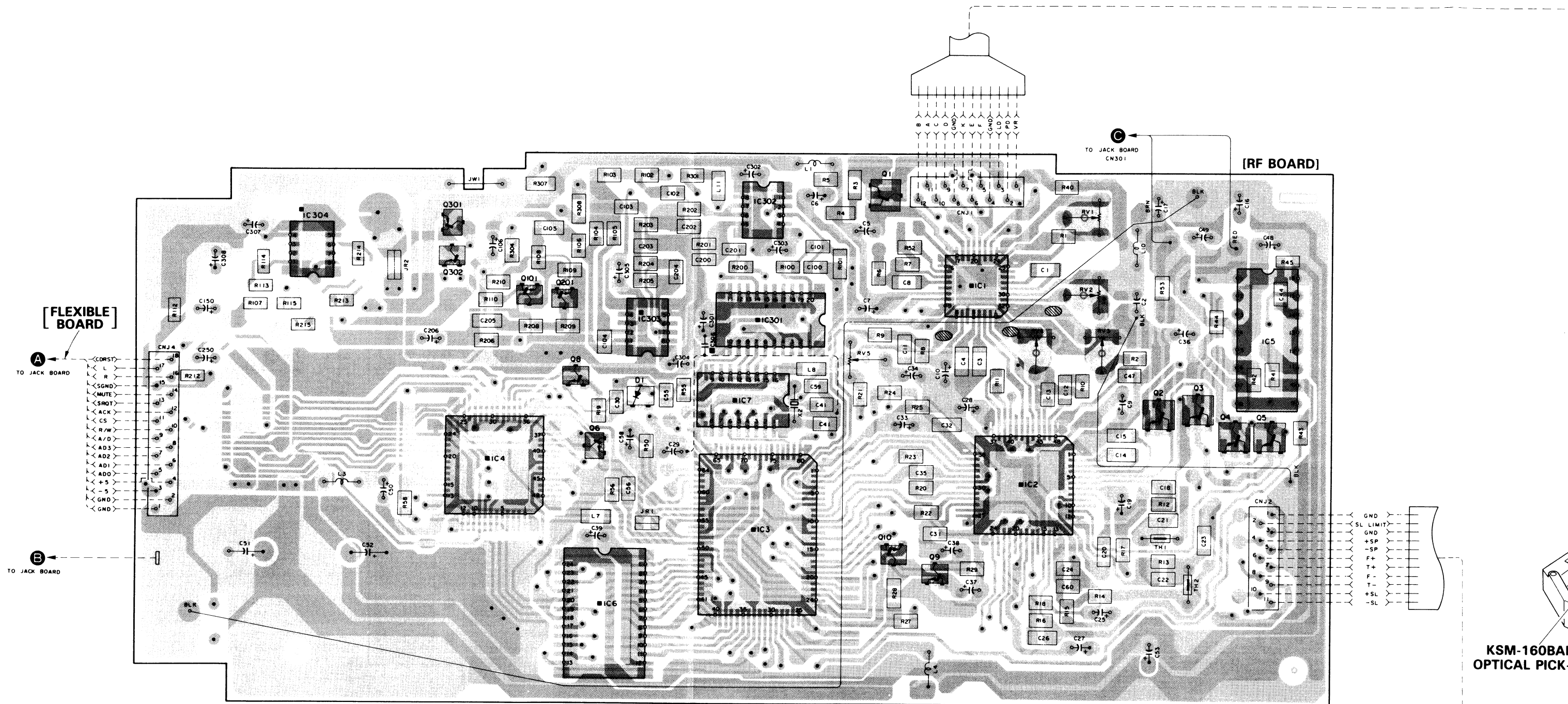
RF unit

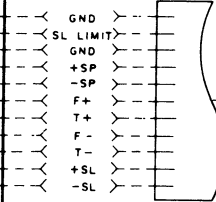
Ref. No.	Q	Address
IC	1	3Q
	2	4Q
	3	4Q
	4	4Q
	5	4Q
	6	5S
	8	4S
	9	5Q
	10	5Q
	101	4S
	201	4S
	301	3T
	302	3T
1		3Q
2		5P
3		5R
4		5T
5		4Q
6		6S
7		4R
301		4R
302		3R
303		4S
304		4S

Refer to the schematic diagram for the values of resistors and capacitors.



# PC BOARD (Foil side view) (2/3)

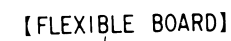




Ref. No.		Address
IC	Q	
	1	
	2	
	3	
	4	
	5	
	6	
	8	
	9	
	10	
	101	
	201	
	301	
	302	



### PC BOARD (Component side view) (3/3)



**B** ←  
TO RF BOARD

【 JACK BOARD】

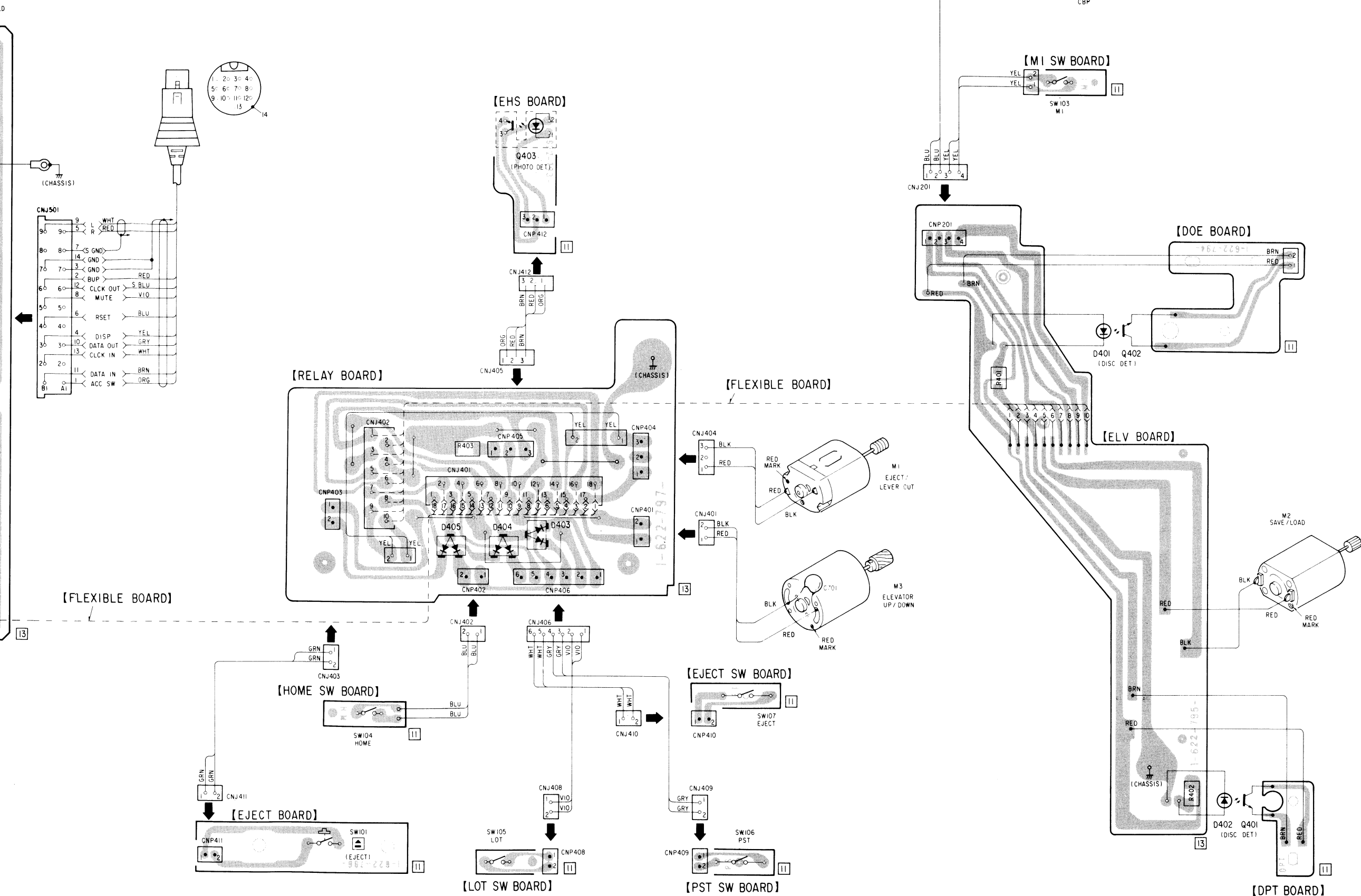
TO RF BOARD

(CHASSIS)

【FLEXIBLE BOARD】

Diagram showing the connection of the CNJ301 component. A red wire connects pin 2 to the 'TO RF BOARD' terminal, and a brown wire connects pin 1 to the same terminal.

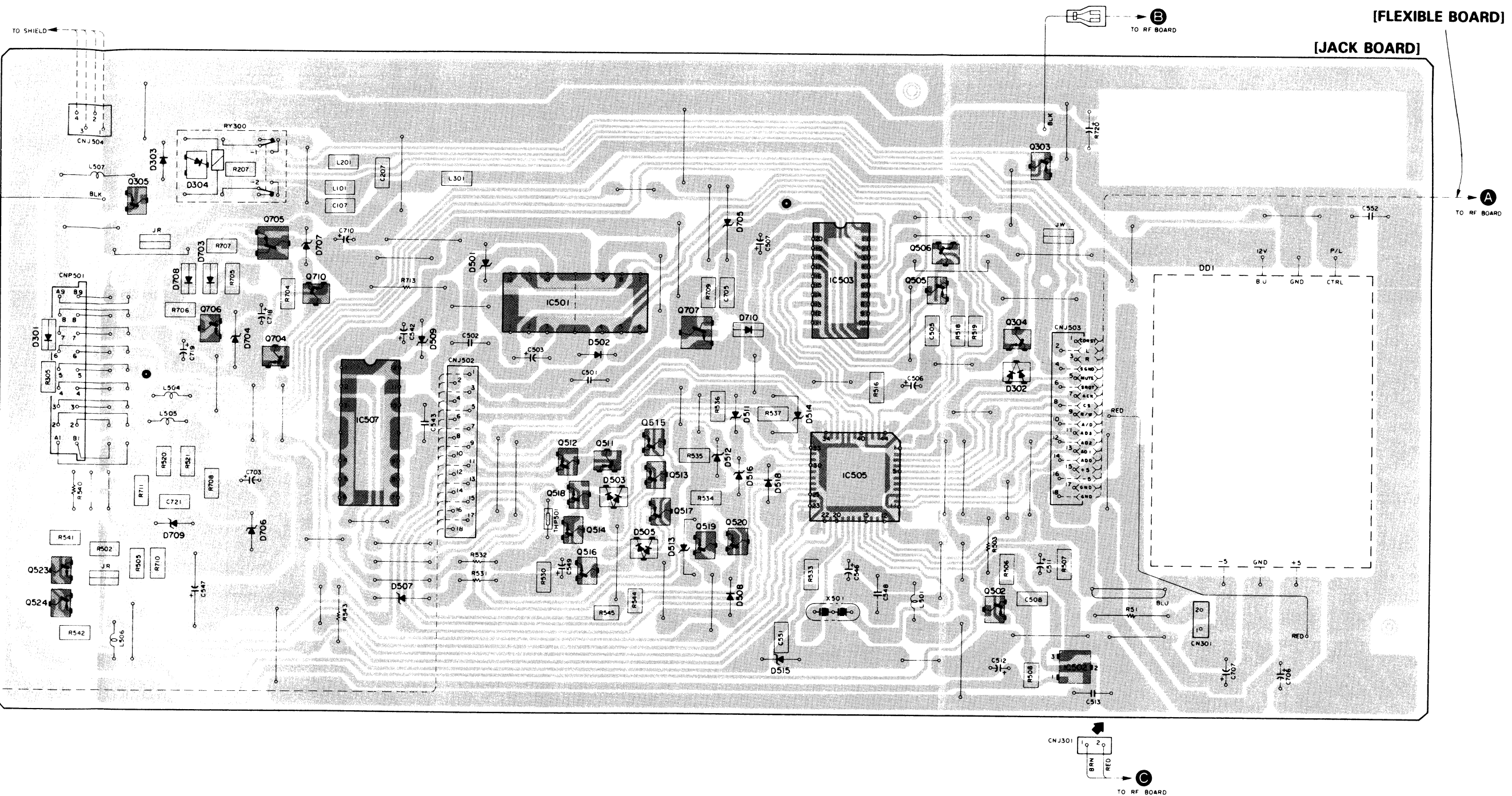
Pinout diagram for the CN501 integrated circuit. The diagram shows a 40-pin package with pins numbered 1 to 40. The functions for each pin are listed on the right. Pins 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, and 40 are shown. The functions are: 9: WHT, 10: RED, 11: S GND, 12: GND, 13: GND, 14: GND, 15: BUP, 16: RED, 17: S BLU, 18: VIO, 19: MUTE, 20: BLU, 21: RSET, 22: DISP, 23: YEL, 24: DATA OUT, 25: GRN, 26: WHT, 27: CLK IN, 28: BRN, 29: DATA IN, 30: ACC SW, 31: ORG, 32: BI, 33: AI, 34: GND, 35: GND, 36: GND, 37: GND, 38: GND, 39: GND, 40: GND.



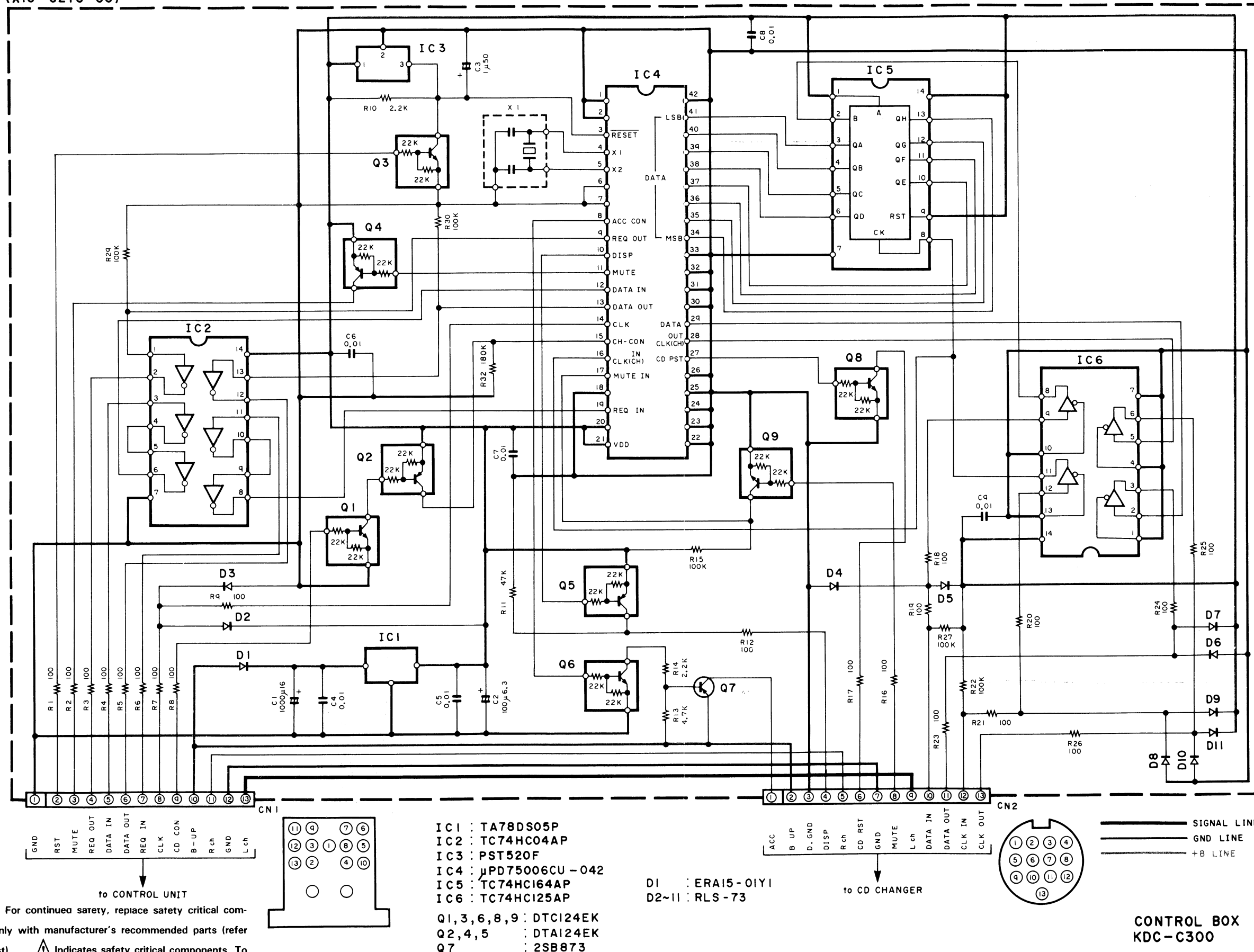
Refer to the schematic diagram for the values of resistors and capacitors.







Control unit		
Ref. No.	Q	Address
IC	303	
	304	
	305	
	502	
	505	
	506	
	511	
	512	
	513	
	514	
	515	
	516	
	517	
	518	
	519	
	520	
	523	
	524	
	704	
	705	
	706	
	707	
	710	
501		38Q
502		58T
503		28R
505		48R
507		38Q



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To

reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

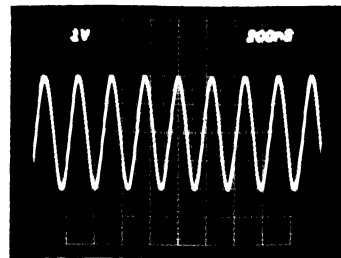
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units

Les tensions d.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

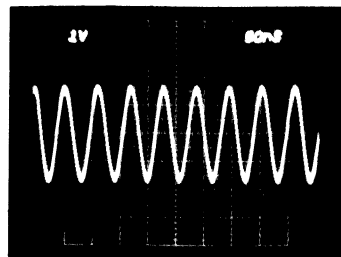
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig

# WAVEFORMS

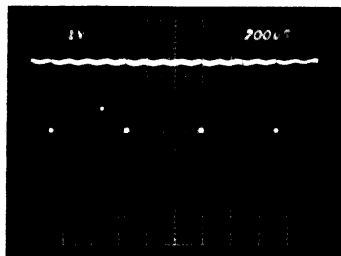
1 IC505 pin 18



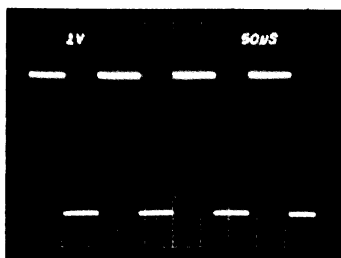
2 IC7 pin 1



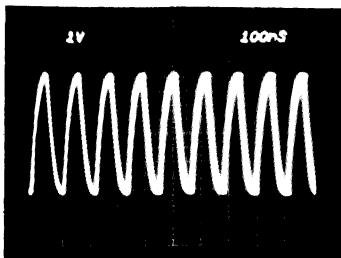
3 IC2 pin 34, IC3 pin 3



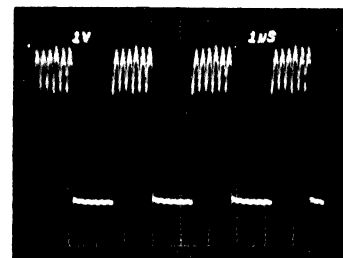
4 IC3 pin 4



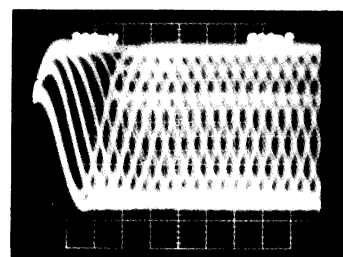
5 IC3 pin 8



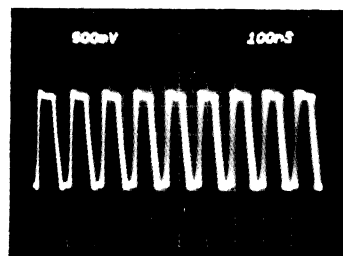
6 IC7 pin 13



7 IC1 pin 14



8 IC2 pin 32



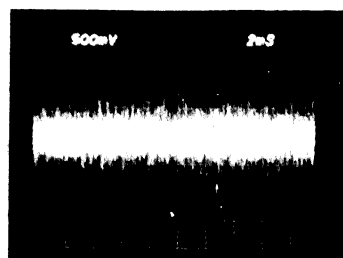
9 IC1 pin 32



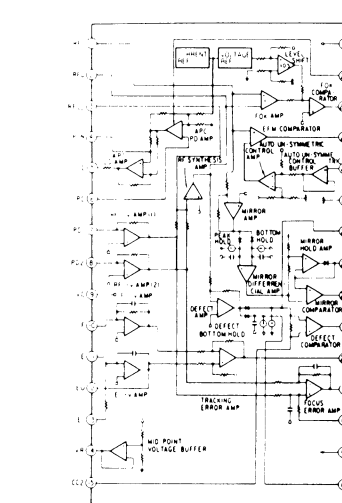
10 IC1 pin 1



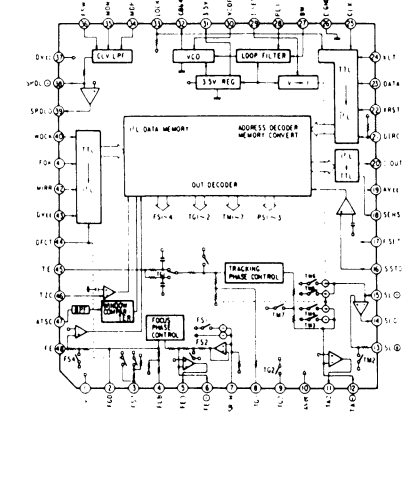
11 Q2, 3 emitter



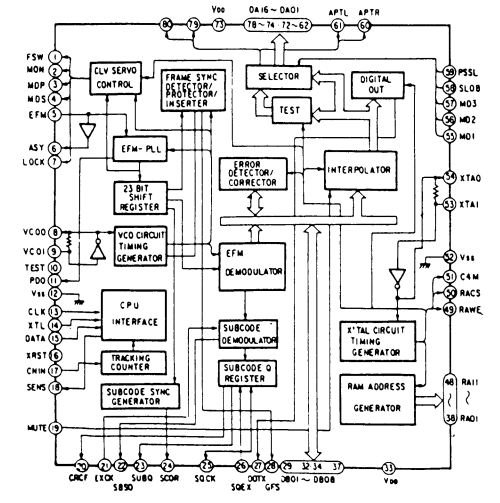
IC1 CXA1081Q



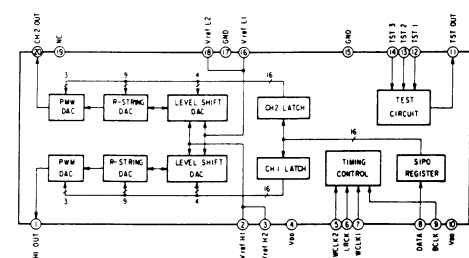
IC2 CXA1182Q-Z



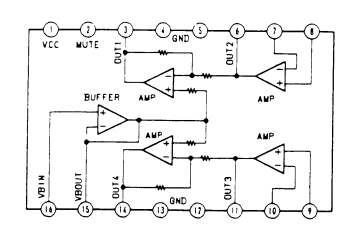
IC3 CXD1125Q



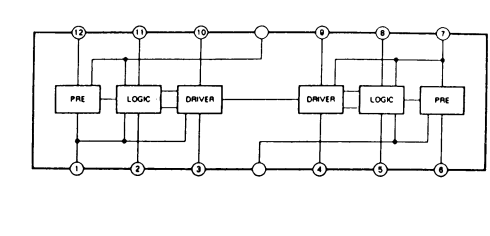
IC301 CXD1161M-2



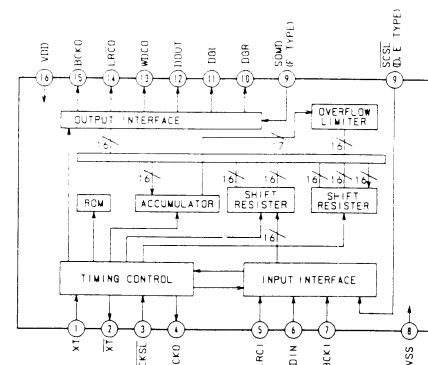
IC5 LA6530



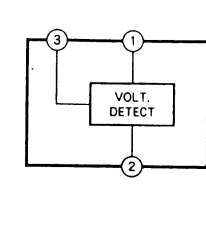
IC501, 507 LB1649



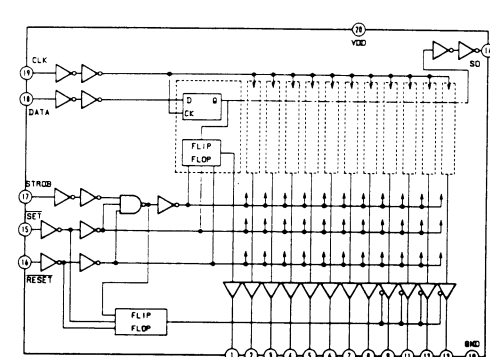
IC7 CXD1316DM



IC502 S-8054HN-CB

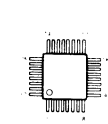


IC503 CX-7991

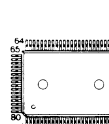


## SEMICONDUCTOR LEAD LAYOUTS

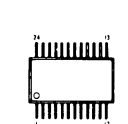
CXA1081Q



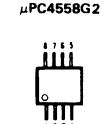
CXD1125Q



CXK5816M-15L



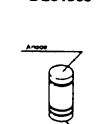
LA6462M  
μPC4558G2



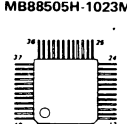
GP-1S03



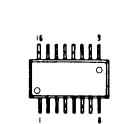
DLS1585



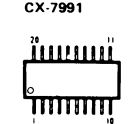
CXA1182Q-Z  
MB88505H-1023M



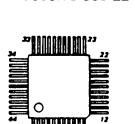
CXD1316DM



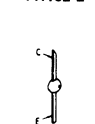
CXD1161M-2  
CX-7991



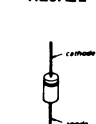
μPD7508HG-593-22



PH102-L



HZ6A2L

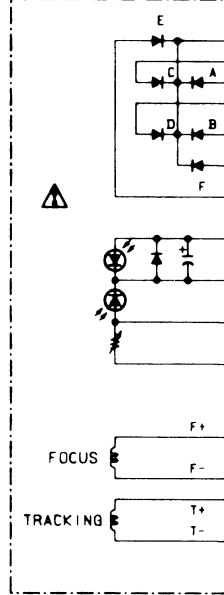


**KDC-C300**  
**KENWOOD**

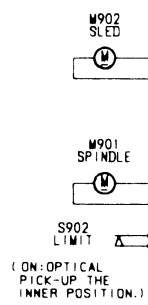


KSM-160BAN  
OPTICAL PICK-UP  
BLOCK

[ RF BOARD ]



[ JACK BOARD (2/2) ]



IC5  
MOTOR DRIVE

IC4  
MECHANISM CONTROL

IC505  
MAIN CPU

IC3  
CXD1125

IC6  
RAM

IC1  
RF AMP

IC2  
CXAT182Q

IC3  
CXD1125

IC4  
MB88505-1023

IC5  
LA6530

IC6  
RAM

IC7  
DTC114EK

IC8  
DTC114EK

IC9  
DTC114EK

IC10  
DTC114EK

IC11  
DTC114EK

IC12  
DTC114EK

IC13  
DTC114EK

IC14  
DTC114EK

IC15  
DTC114EK

IC16  
DTC114EK

IC17  
DTC114EK

IC18  
DTC114EK

IC19  
DTC114EK

IC20  
DTC114EK

IC21  
DTC114EK

IC22  
DTC114EK

IC23  
DTC114EK

IC24  
DTC114EK

IC25  
DTC114EK

IC26  
DTC114EK

IC27  
DTC114EK

IC28  
DTC114EK

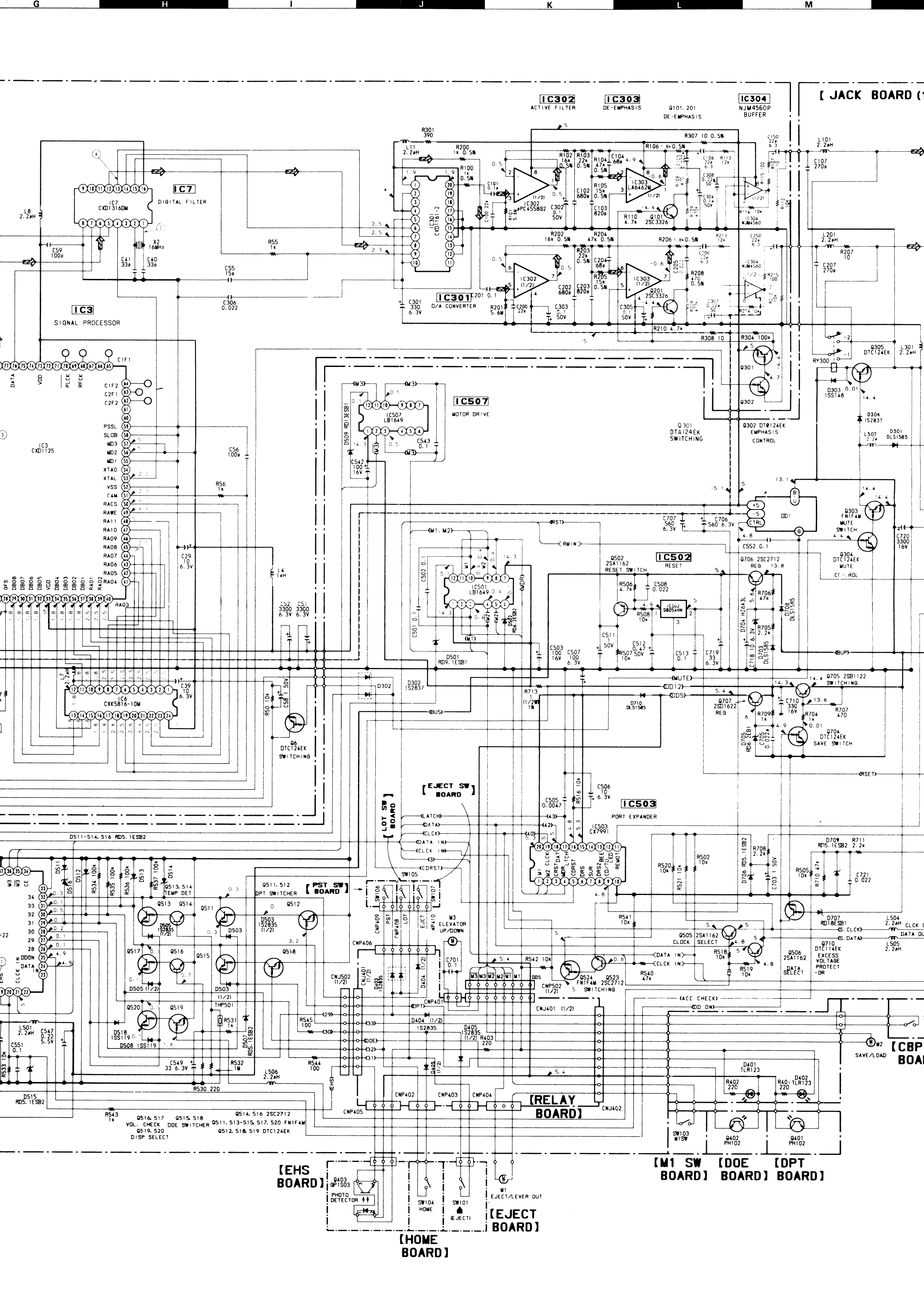
IC29  
DTC114EK

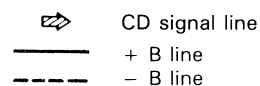
IC30  
DTC114EK


IC31  
DTC114EK

IC32  
DTC114EK

IC33  
DTC114EK





**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

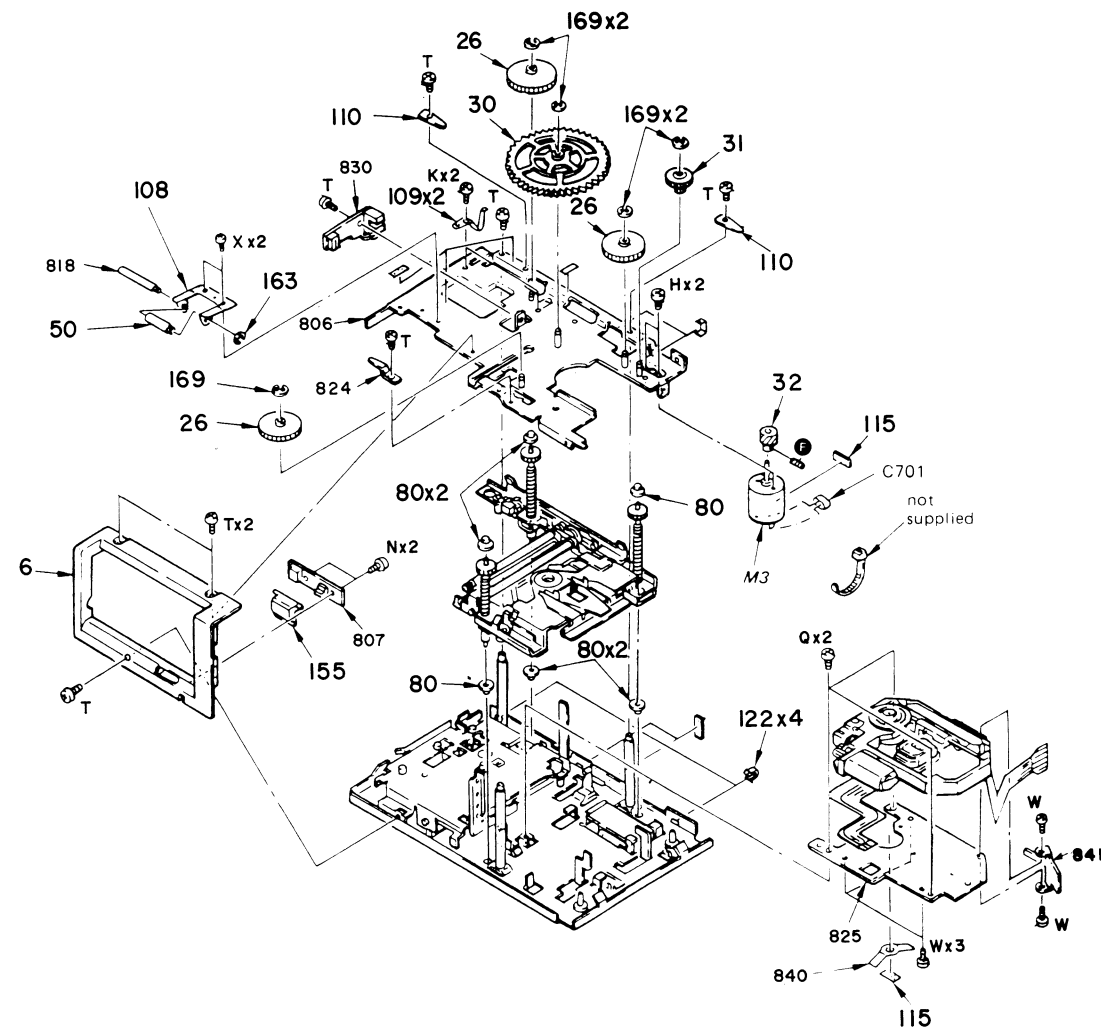
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

# KDC-C300

## EXPLODED VIEW (MECHANISM)

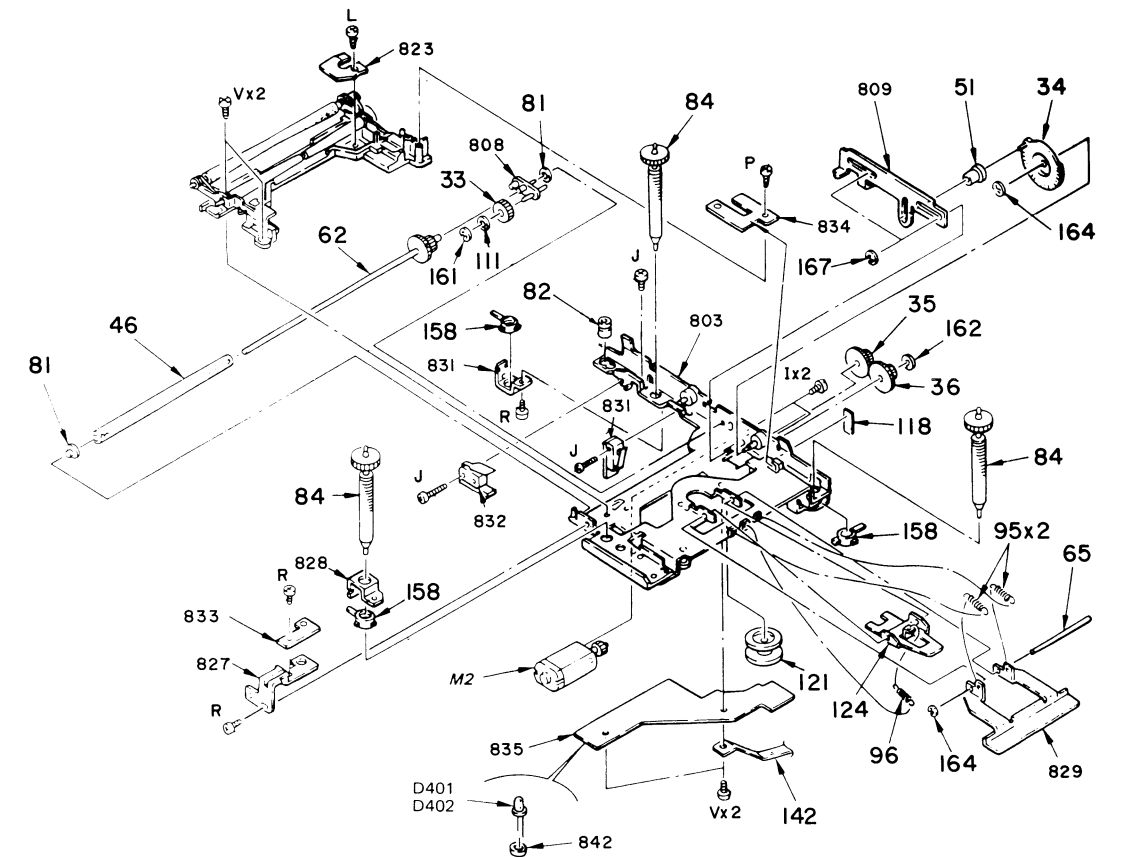


P	M3x3	BLK	N09 - 2639 - 08
H	M3x3	BLK	N30 - 3003 - 45
I	M2x3	BLK	N30 - 2003 - 45
K	M2.6x3 (Bi)	BLK	N35 - 2603 - 45
N	Ø 2.6x5 (T)		N52 - 2605 - 46
Q	Ø 2x4 (Tap)	BLK	N84 - 2004 - 45
T	Ø 2.6x5 (Tap)	BLK	N84 - 2605 - 45
X	M2x2	Ni	N39 - 2020 - 41
W	M2x5 (TP)		N90 - 2005 - 46

KDC-C300(A/5)

# KDC-C300

## EXPLODED VIEW (MECHANISM)

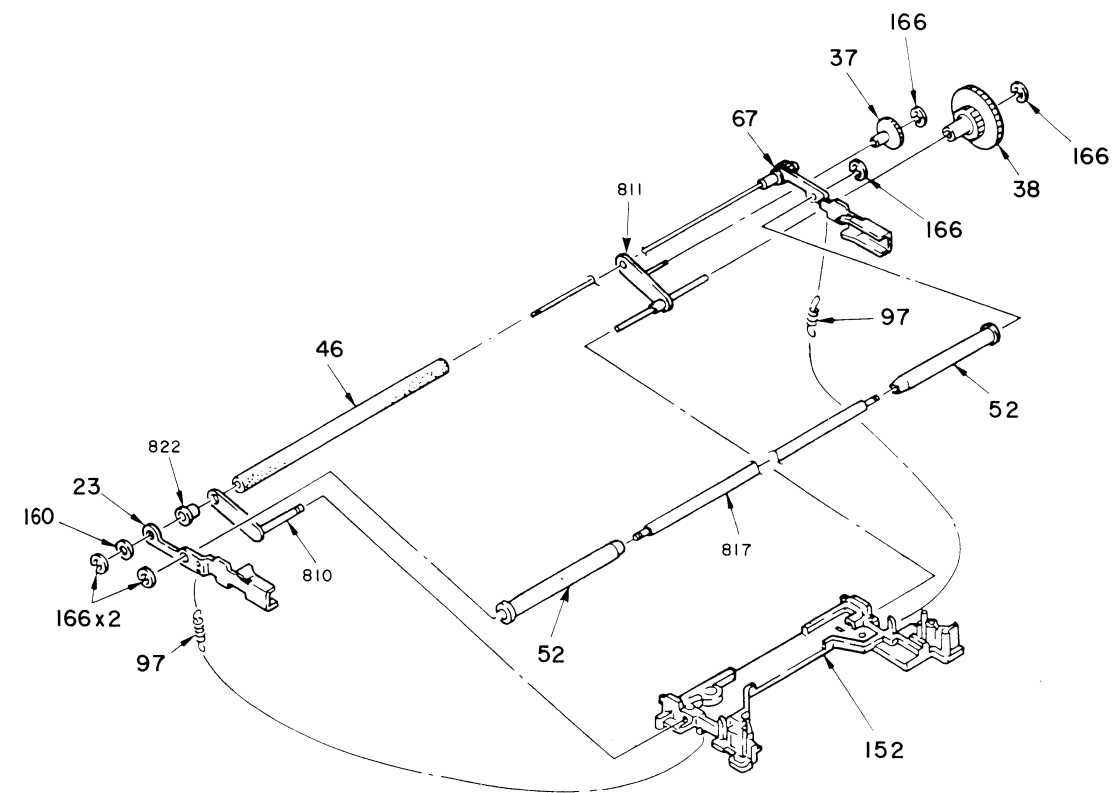


I	M2x3	BLK	N30 - 2003 - 45
J	M2x8 (Bi)	BLK	N35 - 2008 - 45
L	M2.6x6 (Bi)	BLK	N35 - 2606 - 45
P	Ø 2.6x5 (T)		N52 - 2605 - 46
R	Ø 2x4 (Tap)		N84 - 2004 - 46
V	Ø 2.6x5 (Tap)		N84 - 2605 - 46

KDC-C300(B/5)

# KDC-C300

## EXPLODED VIEW (MECHANISM)

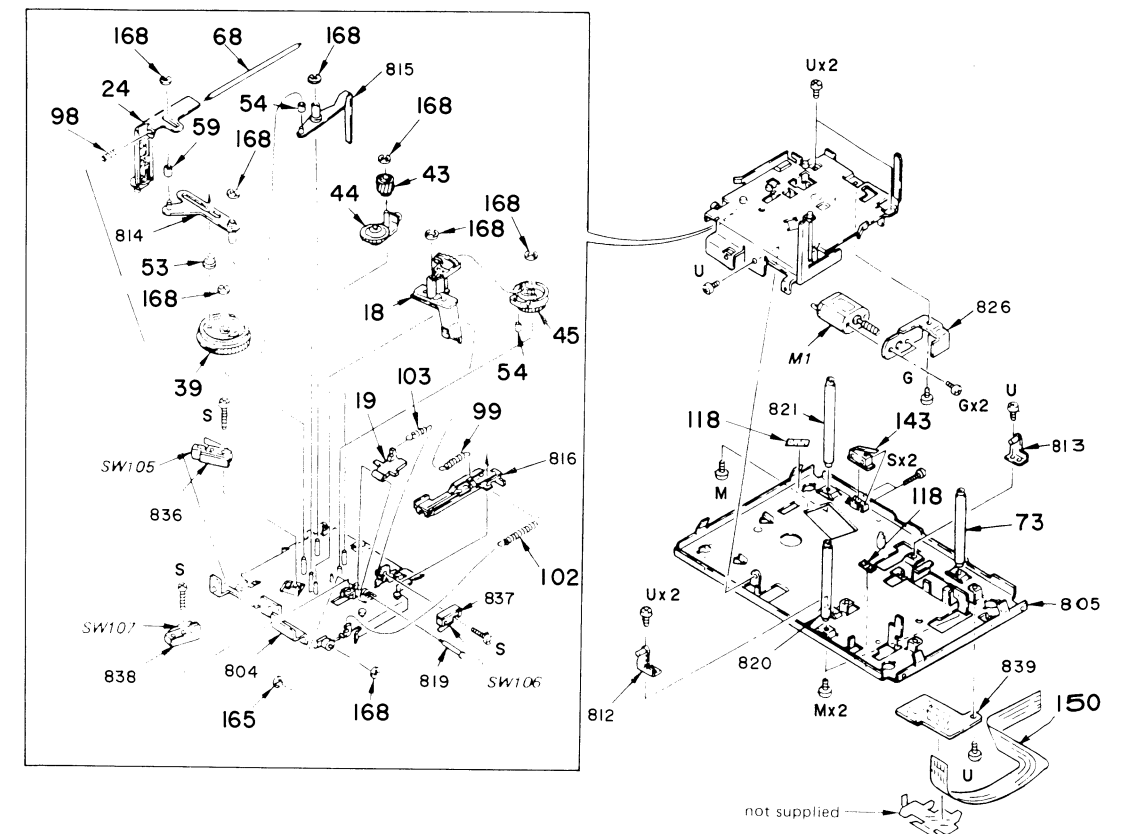


KDC-C300(C/5)

Parts with the exploded numbers larger than 700 are not supplied.

# KDC-C300

## EXPLODED VIEW (MECHANISM)

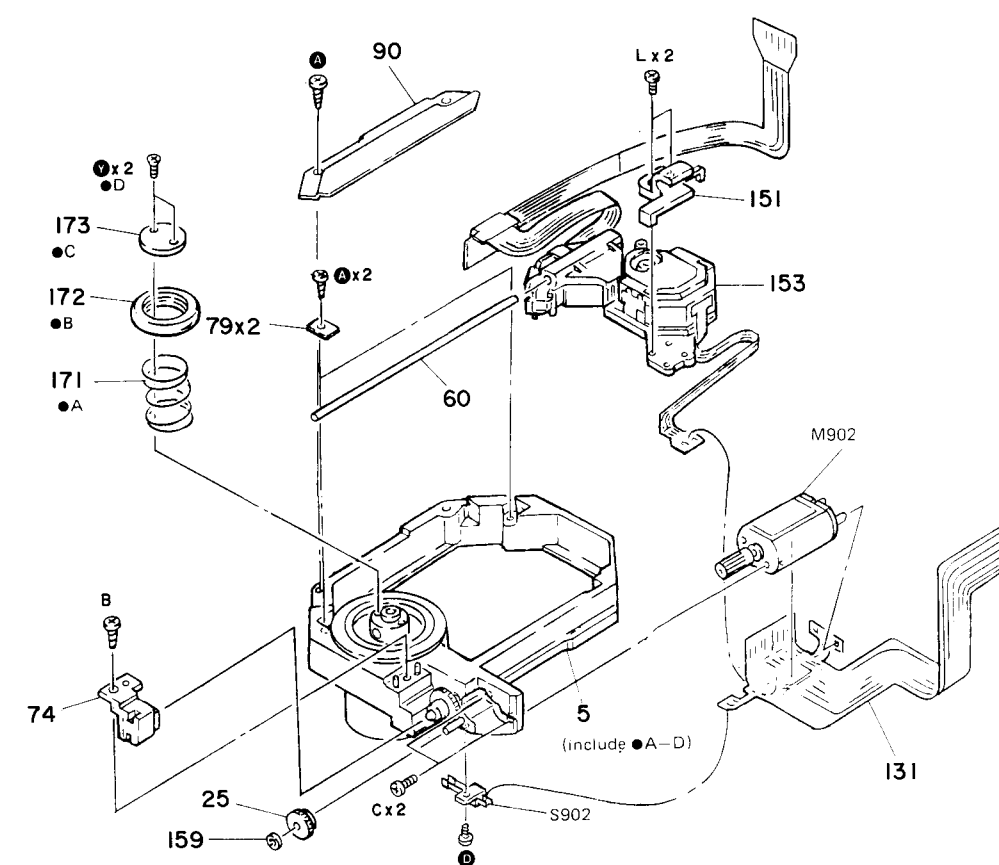


G M2.6x3 : N30-2603-46  
M M3x5 (Bl) BLK : N35-3005-45  
S Ø2x10 (Tap) : N84-2010-46  
U Ø2.6x5 (Tap) BLK : N84-2605-45

KDC-C300(D/5)

Parts with the exploded numbers larger than 700 are not supplied.

## EXPLODED VIEW (MECHANISM)

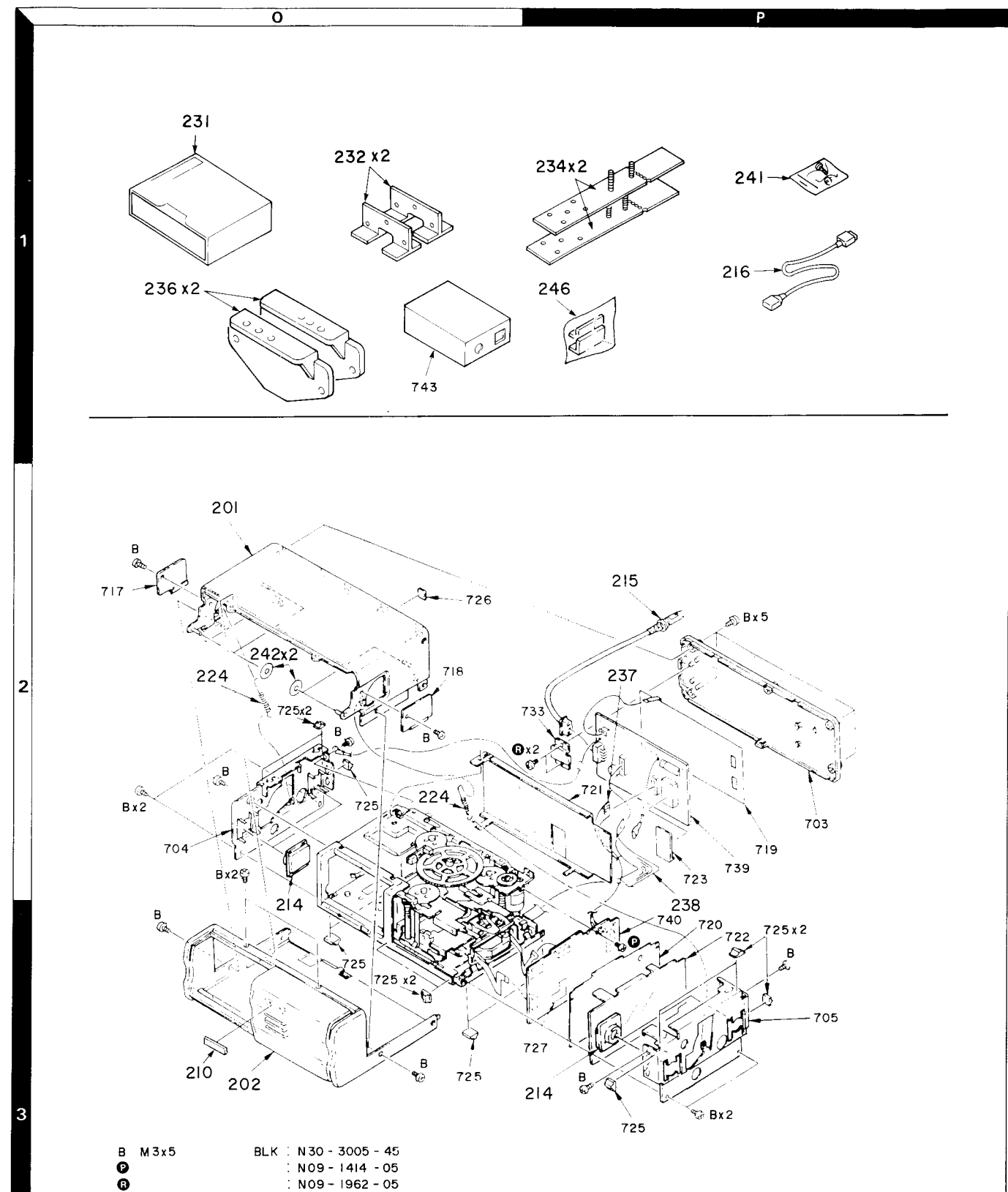


9	M2x4			N09 - 1304 - 05
B	M2x6	Ni		N52 - 2006 - 41
C	M2x3	Ni		N39 - 2030 - 41
D				N09 - 1943 - 08
L	M2.6x6 (BI)	BLK		N35 - 2606 - 45
9				N09 - 4011 - 08

KDC - C300(E/5)

# KDC-C300

### EXPLODED VIEW (UNIT)



KDC - C300

PARTS LIST

× New Parts  
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Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位 置	新	部 品 番 号	部 品 名 / 規 格	仕 向	備考
KDC-C300						
201	10	*	A01-2522-08	METALLIC CABINET	E  WT  E	
202	30	*	A20-7582-08	DRESSING PANEL		
210	30	*	B43-1203-04	KENWOOD BADGE		
-			B44-6005-04	UPC CODE LABEL		
-			B44-6006-04	UPC CODE LABEL		
-			B46-0100-20	WARRANTY CARD		
-			B46-0172-03	QUESTIONAIRE CARD		
-			B46-0182-04	ID CARD		
-		*	B50-7969-00	INSTRUCTION MANUAL		
-			B58-0881-04	CAUTION CARD		
214	30		D39-0202-08	DAMPER (OIL)		
215	1P		E30-3894-08	CORD WITH CONNECTOR		
216	1P	*	E30-3834-05	CORD WITH CASE(EXTENSION CORD)		
224	20		G01-2317-08	TENSION SP		
-		*	H01-9145-08	ITEM CARTON BOX(CHANGER)		
-		*	H03-3179-08	OUTER PACKING CASE		
-			H10-3767-08	POLYSTYRENE FOAMED FIXTURE(BOT		
-			H10-3768-08	POLYSTYRENE FOAMED FIXTURE(UPP		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
231	10		J19-3110-08	DISC MAGAZINE		
232	10		J19-3174-08	MOUNTING FITTING (CHANGER)		
234	1P		J21-5462-08	MOUNTING PLATE (CHANGER)		
236	10		J21-7075-08	BRACKET		
237	2P		J25-6030-08	FLEXIBLE BOARD (RF)		
238	2P		J25-6031-08	FLEXIBLE BOARD (ELV)		
241	1P		N99-0285-08	SCREW SET		
242	20		N19-2014-08	WASHER (TEFLON)		
B			N30-3005-45	PAN HEAD MACHINE SCREW		
P	3P		N09-1414-05	SCREW (/2.6X5)		
R	2P		N09-1962-05	SCREW (/2.6X6)		
CONTROL BOX (X13-6270-00)						
-			A01-2502-03	METALLIC CABINET		
-			A10-2003-03	CHASSIS CALKED ASSY		
C1			CE04DW1C102M	ELECTRO 1000UF 16WV		
C2			CE04DW1A101M	ELECTRO 100UF 10WV		
C3			CE04DW1H010M	ELECTRO 1.0UF 50WV		
C4 -9			CK73EB1H103K	CHIP C 0.01UF K		
CN1			E08-1305-05	RECTANGULAR RECEPTACLE		
CN2			E06-1301-05	CYLINDRICAL RECEPTACLE		
-			H13-1509-03	CARTON BOARD		
-			H25-0333-04	PROTECTION BAG		
246	1P		J21-7021-05	MOUNTING HARDWARE		
X1			L78-0501-05	RESONATOR		
-			N09-1203-05	SCREW		
-			N09-4003-05	SCREW		
J1 -12			R92-0338-05	CLYND CHIP R 0 OHM		

E: Scandinavia & Europe K: USA P: Canada W:Europe  
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⚠ indicates safety critical components.




KDC-C300

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参照番号	位 置	新	部 品 番 号	部 品 名 / 規 格	仕 向	備考
J100,101 R1 -9 R10 R11 R12			R92-0338-05 RD41DB2B101J RD41DB2B222J RD41DB2B473J RD41DB2B101J	CLYND CHIP R 0 0HM CARBON 100 J 1/8W CARBON 2.2K J 1/8W CARBON 47K J 1/8W CARBON 100 J 1/8W		
R13 R14 R15 R16 -21 R22			RD41DB2B472J RD41DB2B222J RD41DB2B104J RD41DB2B101J RD41DB2B104J	CARBON 4.7K J 1/8W CARBON 2.2K J 1/8W CARBON 100K J 1/8W CARBON 100 J 1/8W CARBON 100K J 1/8W		
R23 -26 R27 R29 ,30 R32			RD41DB2B101J RD41DB2B104J RD41DB2B104J RD41DB2B184J	CARBON 100 J 1/8W CARBON 100K J 1/8W CARBON 100K J 1/8W CARBON 180K J 1/8W		
D1 D2 -11 IC1 IC2 IC3			ERA15-01Y1 RLS-73 TA78DS05P TC74HC04AP PST520F	DIODE DIODE IC(VOLTAGE REGULATOR/ +5V) IC IC(LOW POWER RESET)		
IC4 IC5 IC6 Q1 Q2		*	UPD75006CU-042 TC74HC164AP TC74HC125AP DTC124EK DTA124EK	IC(MICROPROCESSOR) IC(8BIT SHIFT REGISTER) IC DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q3 Q4 ,5 Q6 Q7 Q8 ,9			DTC124EK DTA124EK DTC124EK 2SB873 DTC124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
ELECTRIC CIRCUIT						
C1 C2 C3 C4 C5			CK73EB1H333K CE04NWOJ101M CK73EB1H333K CK41DY1C103K CE04NWOJ101M	CHIP C 0.033UF K ELECTRO 100UF 6.3WV CHIP C 0.033UF K CYLND CHIP C 0.010UF K ELECTRO 100UF 6.3WV		
C6 C7 C8 C9 C10			CE04NWOJ470M CE04NWOJ331M CK73EB1H183K CE04NWOJ101M CE04NW1HR47M	ELECTRO 47UF 6.3WV ELECTRO 330UF 6.3WV CHIP C 0.018UF K ELECTRO 100UF 6.3WV ELECTRO 0.47UF 50WV		
C11 C12 C13 C14 ,15 C16 ,17			CK41DY1C103K CK73EB1H183K CK73FB1H222K CK73EB1E104K CE04NWOJ331M	CYLND CHIP C 0.010UF K CHIP C 0.018UF K CHIP C 2200PF K CHIP C 0.10UF K ELECTRO 330UF 6.3WV		
C18 C19 C20 ,21 C22 C23			CC73FSL101J CE04NW1E3R3M CK73EB1E104K CC73FCH1H330J CK73EB1E104K	CHIP C 330UF ELECTRO 3.3UF 25WV CHIP C 0.10UF K CHIP C 33PF J CHIP C 0.10UF K		
C24 C25 C26 C27 ,28 C29			CK73FF1H473K CE04NW1H2R2M CK73EB1E683K CE04NWOJ101M CE04NWOJ100M	CHIP C 0.047UF K ELECTRO 2.2UF 50WV CHIP C 0.068UF K ELECTRO 100UF 6.3WV ELECTRO 10UF 6.3WV		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C30			CK73FB1H223K	CHIP C 0.022UF K		
C31			CK73FB1H472K	CHIP C 4700PF K		
C32			CK73EB1H333K	CHIP C 0.033UF K		
C33			CE04NW1HR47M	ELECTRØ 0.47UF 50WV		
C34			CE04NW0J470M	ELECTRØ 47UF 6.3WV		
C35			CK73FB1H102K	CHIP C 1000PF K		
C36			CE04NW0J331M	ELECTRØ 330UF 6.3WV		
C37 ,38			CE04CW1H010M	ELECTRØ 1.0UF 50WV		
C39			CE04NW0J100M	ELECTRØ 10UF 6.3WV		
C40 ,41			CC73FCH1H330J	CHIP C 33PF J		
C44			CK73EB1E104K	CHIP C 0.10UF K		
C47			CK73FB1H102K	CHIP C 1000PF K		
C48 ,49			CE04NW0J331M	ELECTRØ 330UF 6.3WV		
C50			CE04NW0J100M	ELECTRØ 10UF 6.3WV		
C51 ,52			C90-2514-08	ELECTRØ 3300UF 6.3WV		
C53			CE04NW0J331M	ELECTRØ 330UF 6.3WV		
C55			CC73FSL1H150J	CHIP C 15PF J		
C56			CC73FSL1H101J	CHIP C 100PF J		
C58			CE04NW1H010M	ELECTRØ 1.0UF 50WV		
C59			CC73FSL1H101J	CHIP C 100PF J		
C60			CC73FB1H103K	CHIP C 0.010UF K		
C100			CC73FCH1H220J	CHIP C 22PF J		
C101			C93-1015-08	CHIP C 0.10UF 125WV		
C102			CC73FB1H681K	CHIP C 680PF K		
C103			CC73FB1H821K	CHIP C 820PF K		
C104			CC73FSL1H680J	CHIP C 68PF J		
C105		*	CK41DF1H223Z	CYLND CHIP C 0.022UF Z		
C106			CE04CW0J220M	ELECTRØ 22UF 6.3WV		
C107			CC73FSL1H271J	CHIP C 270PF J		
C150		*	C92-1013-08	ELECTRØ 22UF 6.3WV		
C200		*	CC73FCH1E220J	CHIP C 22PF J		
C201			C93-1015-08	CHIP C 0.10UF 125WV		
C202			CC73FB1H681K	CHIP C 680PF K		
C203			CC73FB1H821K	CHIP C 820PF K		
C204			CC73FSL1H680J	CHIP C 68PF J		
C205		*	CK41DF1H223Z	CYLND CHIP C 0.022UF Z		
C206			CE04CW0J220M	ELECTRØ 22UF 6.3WV		
C207			CC73FSL1H271J	CHIP C 270PF J		
C250		*	C92-1013-08	ELECTRØ 22UFF 6.3WV		
C301			CE04NW0J331M	ELECTRØ 330UF 6.3WV		
C302-305			CE04NW1H2R2M	ELECTRØ 2.2UF 50WV		
C306			C91-0684-05	CERAMIC 0.022UF K		
C307,308		*	C92-1014-08	CERAMIC 0.22UF 50WV		
C501,502			CF92V1H104J	MF 0.10UF J		
C503			C90-1263-05	ELECTRØ 100UF 16WV		
C505			CK41DX1C472M	CYLND CHIP C 4700PF M		
C506			CE04NW1C100M	ELECTRØ 10UF 16WV		
C507			CE04NW0J101M	ELECTRØ 100UF 6.3WV		
C508			CK41DF1E223Z	CYLND CHIP C 0.022UF Z		
C511			CE04CW1H010M	ELECTRØ 1.0UF 50WV		
C512			CE04NW1HR47M	ELECTRØ 0.47UF 50WV		
C513			CF92V1H104J	MF 0.10UF J		
C542			C90-1263-05	ELECTRØ 100UF 16WV		
C543			CF92V1H104J	MF 0.10UF J		
C546			CE04NW0J100M	ELECTRØ 10UF 6.3WV		

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KDC-C300

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参照番号	位 置	新	部 品 番 号	部 品 名 / 規 格	仕 向	備考
C547			C90-2515-08	ELECTRØ 0.22F 5.5WV		
C548			CF92V1H104J	MF 0.10UF J		
C549			CE04NWOJ330M	ELECTRØ 33UF 6.3WV		
C551			CK73EB1E104K	CHIP C 0.10UF K		
C552			CF92V1H104J	MF 0.10UF J		
C701			CF92V1H104J	MF 0.10UF J		
C703			CE04CW1H010M	ELECTRØ 1.0UF 50WV		
C705			CK73EB1H223K	CHIP C 0.022UF K		
C706			C90-2516-08	ELECTRØ 560UF 6.3WV		
C710			C90-1732-08	ELECTRØ 330UF 16WV		
C718			CE04NW1C100M	ELECTRØ 10UF 16WV		
C719			CE04NWOJ330M	ELECTRØ 33UF 6.3WV		
C720			C90-1733-08	ELECTRØ 3300UF 16WV		
C721			CK41DF1E223Z	CYLND CHIP C 0.022UF Z		
L1			L40-2292-17	SMALL FIXED INDUCTØR (2.2UF)		
L3			L40-2292-17	SMALL FIXED INDUCTØR (2.2UF)		
L4			L39-0168-08	CØIL (1.0UH)		
L7 ,8			L39-0169-08	CØIL (2.2UH)		
L10			L40-2292-17	SMALL FIXED INDUCTØR (2.2UH)		
L11			L39-0169-08	CØIL (2.2UH)		
L101			L39-0169-08	CØIL (2.2UH)		
L201			L39-0169-08	CØIL (2.2UH)		
L301			L39-0169-08	CØIL (2.2UH)		
L501			L40-2292-17	SMALL FIXED INDUCTØR (2.2UH)		
L504-507			L40-2292-17	SMALL FIXED INDUCTØR (2.2UH)		
X2			L77-1133-08	CRYSTAL RESONATOR		
X501			L78-0250-08	RESONATOR		
JR1			R92-0338-05	CLYND CHIP R 0 ØHM		
JR2			R92-0670-05	CHIP R 0 ØHM		
JR550-552			R92-0670-05	CHIP R 0 ØHM		
R1			RK73FB2A223J	CHIP R 22K J 1/10W		
R2			RK73FB2A103J	CHIP R 10K J 1/10W		
R3 ,4			RK73EB2B110J	CHIP R 11 J 1/8W		
R5			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R6			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R7			RK73FB2A133J	CHIP R 13K J 1/10W		
R8			RK73FB2A104J	CHIP R 100K J 1/10W		
R9			RK73FB2A113J	CHIP R 11K J 1/10W		
R10			RK73FB2A474J	CHIP R 470K J 1/10W		
R11 -13			RK73FB2A104J	CHIP R 100K J 1/10W		
R14			RK73FB2A334J	CHIP R 330K J 1/10W		
R15			RK73FB2A683J	CHIP R 68K J 1/10W		
R16			RK73FB2A124J	CHIP R 120K J 1/10W		
R17			RK73FB2A684J	CHIP R 680K J 1/10W		
R18			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R19			RK73FB2A274J	CHIP R 270K J 1/10W		
R20			RK73FB2A104J	CHIP R 100K J 1/10W		
R21			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R22			RK73FB2A103J	CHIP R 10K J 1/10W		
R23			RK73FB2A104J	CHIP R 100K J 1/10W		
R24			RK73FB2A203J	CHIP R 20K J 1/10W		
R25			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R27			RK73FB2A103J	CHIP R 10K J 1/10W		
R28			RK73EB2B103J	CHIP R 10K J 1/8W		

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R29			RK73FB2A104J	CHIP R 100K J 1/10W		
R40			RK73FB2A910J	CHIP R 91 J 1/10W		
R41			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R42			RK73FB2A223J	CHIP R 22K J 1/10W		
R43			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R44			RK73EB2B223J	CHIP R 22K J 1/8W		
R45			RK73FB2A100J	CHIP R 10 J 1/10W		
R50			RK73FB2A103J	CHIP R 10K J 1/10W		
R51			RD14DB2H3R3J	SMALL-RD 3.3 J 1/2W		
R52			RK73FB2A153J	CHIP R 15K J 1/10W		
R53			RK73EB2B3R3J	CHIP R 3.3 J 1/8W		
R55 ,56			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73FB2A103J	CHIP R 10K J 1/10W		
R100			R92-2007-08	FIXED RESISTOR 1.0K 1/10W		
R101			RK73EB2B565J	CHIP R 5.6M J 1/8W		
R102			R92-2003-08	FIXED RESISTOR 16K 1/10W		
R103			R92-2004-08	FIXED RESISTOR 22K 1/10W		
R104			R92-2005-08	FIXED RESISTOR 47K 1/10W		
R105			R92-2006-08	FIXED RESISTOR 15K 1/10W		
R106		*	R92-2054-08	FIXED RESISTOR 1.8K 1/10W		
R107			RK73FB2A100J	CHIP R 10 J 1/10W		
R108		*	R92-2055-08	FIXED RESISTOR 470 1/10W		
R109			RK73FB2A474J	CHIP R 470K J 1/10W		
R110			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R112			RK73FB2A103J	CHIP R 10K J 1/10W		
R113		*	R92-2056-08	FIXED RESISTOR 12K 1/10W		
R114			R92-2002-08	FIXED RESISTOR 10K 1/10W		
R115		*	R92-2057-08	FIXED RESISTOR 100 1/10W		
R200		*	R92-2058-08	FIXED RESISTOR 1K 1/10W		
R201			RK73EB2B565J	CHIP R 5.6M J 1/8W		
R202			R92-2003-08	FIXED RESISTOR 16K 1/10W		
R203			R92-2004-08	FIXED RESISTOR 22K 1/10W		
R204			R92-2005-08	FIXED RESISTOR 47K 1/10W		
R205			R92-2006-08	FIXED RESISTOR 15K 1/10W		
R206		*	R92-2054-08	FIXED RESISTOR 1.8K 1/10W		
R207			RK73EB2B100J	CHIP R 10 J 1/8W		
R208		*	R92-2055-08	FIXED RESISTOR 470 1/10W		
R209			RK73FB2A474J	CHIP R 470K J 1/10W		
R210			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R212			RK73FB2A103J	CHIP R 10K J 1/10W		
R213		*	R92-2056-08	FIXED RESISTOR 12K 1/10W		
R214			R92-2002-08	FIXED RESISTOR 10K 1/10W		
R215		*	R92-2057-08	FIXED RESISTOR 100 1/10W		
R301			RK73FB2A391J	CHIP R 390 J 1/10W		
R304			RK73FB2A104J	CHIP R 100K J 1/10W		
R305			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R307 ,308			RK73EB2B100J	CHIP R 10 J 1/8W		
R401 -403			RK73EB2B221J	CHIP R 220 J 1/8W		
R502			RK73EB2B103J	CHIP R 10K J 1/8W		
R503			RD41DB2B103J	CARBON 10K J 1/8W		
R505			RK73EB2B103J	CHIP R 10K J 1/8W		
R506			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R507			RK73EB2B103J	CHIP R 10K J 1/8W		
R508			RK73FB2A103J	CHIP R 10K J 1/10W		
R516			RK73EB2B103J	CHIP R 10K J 1/8W		

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R518-521			RK73EB2B103J	CHIP R 10K J 1/8W		
R530			RK73EB2B221J	CHIP R 220 J 1/8W		
R531			RD41DB2B102J	CARBON 1K J 1/8W		
R533			RK73EB2B103J	CHIP R 10K J 1/8W		
R534-537			RK73EB2B104J	CHIP R 100K J 1/8W		
R540		*	R92-2059-08	CARBON 47K J 1/4W		
R541,542			RK73EB2B103J	CHIP R 10K J 1/8W		
R543			RD41DB2B102J	CARBON 1K J 1/8W		
R544,545			RK73FB2A101J	CHIP R 100 J 1/10W		
R704			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R705			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R706			RK73EB2B473J	CHIP R 47K J 1/8W		
R707			RK73EB2B471J	CHIP R 470 J 1/8W		
R708			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R709			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R710			RK73EB2B473J	CHIP R 47K J 1/8W		
R711			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R713			R92-2009-08	FIXED RESISTOR 1.0 1/2W		
RV1			R12-3097-05	TRIMMING POT. 22K		
RV2			R12-3099-05	TRIMMING POT. 47K		
RV3 ,4			R12-3097-05	TRIMMING POT. 22K		
RV5			R12-1067-05	TRIMMING POT. 2.2K		
RY300			S51-2086-08	RELAY		
S902			S46-1107-08	LEAF SWITCH		
SW101			S59-1085-08	SWITCH		
SW102			S50-1050-08	SENSITIVE SWITCH		
SW103			S50-1051-08	SENSITIVE SWITCH		
SW104-107			S50-1052-08	SENSITIVE SWITCH		
D1			1S2835	DIODE		
D301			1S2835	DIODE		
D302			1S2837	DIODE		
D303			1SS119	DIODE		
D304			1S2837	DIODE		
D401,402			TLR123	LED		
D403-405			1S2835	DIODE		
D501			RD9.1ES(B1)	ZENER DIODE		
D502			RD6.2ES(B2)	ZENER DIODE		
D503			1S2835	DIODE		
D505			1S2835	DIODE		
D507			RD5.1ES(B2)	ZENER DIODE		
D508			1SS119	DIODE		
D509			RD13ES(B1)	ZENER DIODE		
D511-516			RD5.1ES(B2)	ZENER DIODE		
D518			1SS119	DIODE		
D703			DLS1585	DIODE		
D704			HZ6A2L	DIODE		
D705			RD6.2ES(B2)	ZENER DIODE		
D706			RD5.1ES(B2)	ZENER DIODE		
D707			RD18ES(B1)	ZENER DIODE		
D708			DLS1585	DIODE		
D709			RD5.1ES(B2)	ZENER DIODE		
D710			DLS1585	ZENER DIODE		
IC1			CXA1081Q	IC(SERVØ SIGNAL PROCESSOR)		

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IC2 IC3 IC4 IC5 IC6			CXA1182Q-Z CXD1125Q MB88505H-1023M LA-6530 CXK5816M-15L	IC(SERVØ SIGNAL PROCESSØR) IC(DIGITAL SIGNAL PROCESSØR) IC(MICROPROCESSØR) IC IC(16K SRAM SLOW)		
IC7 IC301 IC302 IC303 IC304			CXD1316DM CXD1161M-2 UPC4558G2 LA6462M NJM4560M	IC(DIGITAL FILTER) IC(D/A CONVERTER) IC IC(OP AMP X2) IC(OP AMP X2)		
IC501 IC502 IC503 IC505 IC507			LB1649 S-8054HN-CB CX7991 7508HG-593-22 LB1649	IC(MØTØR DRIVER) IC(VØLTAGE DETECTOR) IC IC(MICROPROCESSØR) IC(MØTØR DRIVER)		
Q1 Q2 Q3 Q4 Q5			2SB1122 2SB1115A 2SD1622 2SB1115A 2SD1622	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q6 Q8 Q9 Q10 Q101			DTC124EK 2SC2712G DTC114EK DTC144EK 2SC3326N	DIGITAL TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR		
Q201 Q301 Q302 Q303 Q304, 305			2SC3326N DTA124EK DTC124EK 2SA1342 DTC124EK	TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR		
Q401, 402 Q403 Q502 Q505 Q506			PH102 GP-1S03 2SA1162 2SA1162 2SA1162Y	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q511 Q512 Q513 Q514 Q515			2SA1342 DTC124EK 2SA1342 2SC2712Y 2SA1342	TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q516 Q517 Q518, 519 Q520 Q523			2SC2712Y 2SA1342 DTC124EK 2SA1342 2SC2712G	TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR		
Q524 Q704 Q705 Q706 Q707			2SA1342 DTC124EK 2SB1122 2SC2712G 2SD1622	TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q710 TH1 ,2 THP501			DTC114EK ERT-D2FHJ802T PTH59F04BG222TS	DIGITAL TRANSISTØR THERMISTØR THERMISTØR		
DD1			W02-0960-08	DC-DC CONVERTØR		

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MECHANISM ASS'Y						
A	2I		N09-1304-05	SCREW		
B	2I		N52-2006-41	SCREW		
C	3I		N39-2030-41	SCREW		
D	3I		N09-1943-08	SCREW		
E	1J		N09-1944-08	SCREW		
F	2B		N09-2639-08	SCREW		
G			N30-2603-46	PAN HEAD MACHINE SCREW		
H			N30-3003-45	PAN HEAD MACHINE SCREW		
I			N30-2003-45	PAN HEAD MACHINE SCREW		
J			N35-2008-45	BINDING HEAD MACHINE SCREW		
K			N35-2603-45	BINDING HEAD MACHINE SCREW		
L			N35-2606-45	BINDING HEAD MACHINE SCREW		
M			N35-3005-45	BINDING HEAD MACHINE SCREW		
N			N52-2605-46	PAN HEAD TAPPING SCREW		
P			N52-2605-46	PAN HEAD TAPPING SCREW		
Q			N84-2004-45	SCREW		
R			N84-2004-46	SCREW		
S			N84-2010-46	SCREW		
T			N84-2605-45	SCREW		
U			N84-2605-45	SCREW		
V			N84-2605-46	SCREW		
W			N90-2005-46	TP HEAD MACHINE SCREW		
X			N39-2020-41	SCREW		
Y	1I		N09-4011-08	SCREW		
5	2I		A15-0601-08	FRAME ASSY (MD SLED)		
6	2A		B07-1860-08	ESCUTCHEON		
18	2G		D10-2265-08	LEVER ASSY (SOFT EJECT)		
19	2G		D10-2266-08	LEVER (BACK LOCK HOOK		
23	2E		D10-2268-08	LEVER (DISC LINK)		
24	1G		D10-2269-08	SLIDER ASSY (LINEAR)		
25	3I		D13-0671-18	GEAR (B)		
26	2A		D13-0760-08	GEAR (ELEVATOR)		
30	1A		D13-0761-08	GEAR (ELEVATOR)		
31	1B		D13-0762-08	GEAR (ELEVATOR)		
32	2B		D13-0763-08	GEAR (MOTOR)		
33	2C		D13-0764-08	GEAR (E)		
34	1D		D13-0765-08	GEAR (F)		
35	2D		D13-0766-08	GEAR (A)		
36	2D		D13-0767-08	GEAR (B)		
37	1F		D13-0768-08	GEAR (G) (ROLLER)		
38	2F		D13-0769-08	GEAR (ROLLER STEP)		
39	2G		D13-0770-08	GEAR		
43	2G		D13-0771-08	GEAR (WORM WHEEL)		
44	2G		D13-0772-08	GEAR ASSY		
45	2G, 2H		D13-0773-08	GEAR (EJECT CAM)		
46	2C, 2E		D14-0269-08	ROLLER (LOWER)		
50	2A		D14-0289-08	ROLLER (MAGAZINE)		
51	1D		D14-0290-08	ROLLER (IDEL)		
52	2E		D14-0291-08	ROLLER ASSY (UPPER)		
53	2G		D14-0292-08	ROLLER (A)		
54	2G		D14-0293-08	ROLLER		
59	1G		D14-0295-08	ROLLER		
62	2C		D21-1507-08	SHAFT ASSY (POLLER)		

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65	2D		D21-1508-08	SHAFT (DISC CHUCK)		
66	2F		D21-1509-08	SHAFT (SIDE ROLLER)		
67	2F		D21-1510-08	SHAFT ASSY (UPPER ROLLER)		
68	1G		D21-1511-08	SHAFT (LINEAR SLIDER)		
74	2I		D23-0232-08	RETAINER ASSY		
78	2J		D23-0233-08	RETAINER		
79	2I		D23-0234-08	RETAINER		
80	2A, 2B		D23-0239-08	RETAINER		
81	2C		D23-0240-08	RETAINER (MAIN ROLLER)		
82	2C		D23-0241-08	RETAINER		
84	2C		D29-0017-08	SCREW ASSY (FEED)		
90	2I		F07-0523-08	COVER		
95	2D		G01-2318-08	TENSION SP		
96	3D		G01-2319-08	TENSION SP		
97	2E, 2F		G01-2320-08	TENSION SP		
98	1G		G01-2321-08	COMPRESSION SP		
99	2G		G01-2322-08	TENSION SP		
102	2G		G01-2323-08	TENSION SP		
103	2G		G01-2324-08	TENSION SP		
104	2C, 2D		G01-2325-08	COMPRESSION SP		
105	1I, 1J		G02-0466-08	LEAF SPRING ASSY		
108	1A		G02-0906-08	LEAF SPRING		
109	1A		G02-0907-08	LEAF SPRING		
110	1A		G02-0908-08	LEAF SPRING		
111	2C		G02-0909-08	LEAF SPRING		
112	2H		G11-1315-08	CUSHION		
115	2B		G11-1323-08	CUSHION		
116	2C		G11-1323-08	CUSHION		
117	3H		G11-1323-08	CUSHION		
118	2D		G11-1427-08	CUSHION		
121	3D		J11-0138-08	CLAMPER		
122	2B		J11-0139-08	CLAMPER		
124	3D		J19-3103-08	BRACKET		
131	2J		J25-7057-08	PRINTED WIRING BOARD (FLEXIBLE)		
142	3D		J25-6047-08	PRINTED WIRING BOARD		
143	2H		J25-6048-08	PRINTED WIRING BOARD		
150	3H		J25-7056-08	PRINTED WIRING BOARD		
151	2J		J90-0705-08	GUIDE		
152	2F		J90-0628-08	GUIDE		
153	2J		J91-0346-08	PICK UP		
155	2A		K24-0054-08	KNOB (EJECT)		
156	2I		E29-0331-08	LEAD PLATE		
158	2C		N14-0185-08	NUT		
159	3I		N19-1120-08	FLAT WASHER		
160	2E		N19-1189-08	FLAT WASHER (0.5X5.5X2.1)		
161	2C		N19-1190-08	FLAT WASHER		
162	2D		N19-1192-08	FLAT WASHER		
163	2A		N24-3015-45	E TYPE RETAINING RING (φ1.5)		
164	3D		N24-3015-45	E TYPE RETAINING RING (φ1.5)		
165	3G		N24-3015-45	E TYPE RETAINING RING (φ1.5)		
166	1F, 2F		N24-3015-45	E TYPE RETAINING RING (φ1.5)		
167	2D		N24-3020-45	E TYPE RETAINING RING (φ2.0)		
168	2G		N24-3020-45	E TYPE RETAINING RING (φ2.0)		
169	1B		N24-3025-45	E TYPE RETAINING RING		
171	2I		G01-2523-08	SPRING, COMPRESSION		

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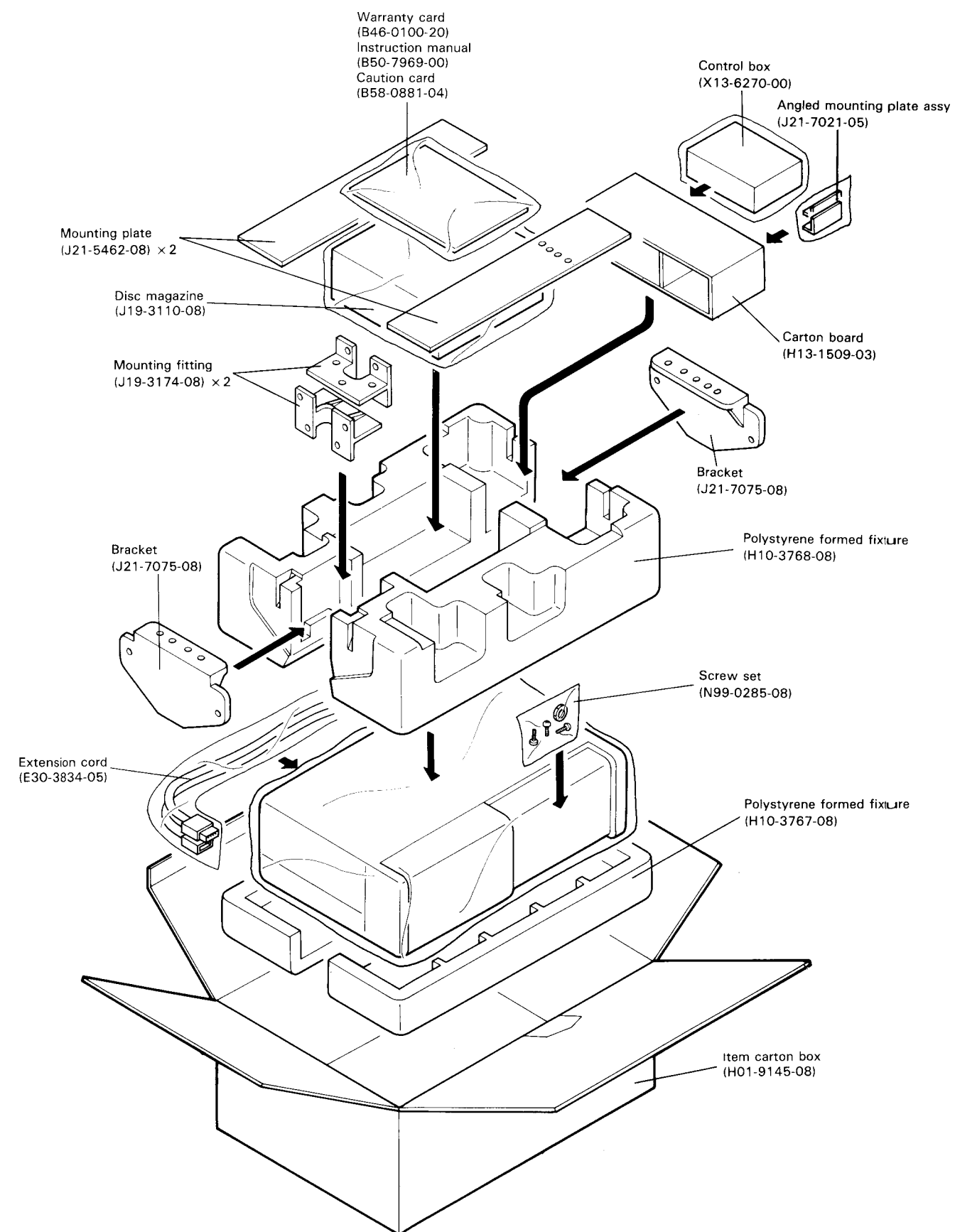
× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnes dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
172	2I		D32-0601-08	STOPPER,RING		
173	2I		J90-0704-08	RING,CENTER		
M1	2H		T42-0512-08	MOTOR ASSY		
M2	3C		T42-0511-08	DC MOTOR ASSY		
M3	2B		T42-0510-08	DC MOTOR		
M902	2J		T42-0709-08	MOTOR ASSY		
S902	3J		S46-1107-08	LEAF SWITCH (LIMIT)		
SW105	2G		S50-1052-08	MICRO SWITCH (LOT)		
SW106	2G		S50-1052-08	MICRO SWITCH (PST)		
SW107	2G		S50-1052-08	MICRO SWITCH (EJECT)		

E: Scandinavia & Europe K: USA P: Canada W:Europe  
U: PX(Far East, Hawaii) T: England M: Other Areas  
UE: AAFES(Europe) X: Australia

 indicates safety critical components

## PACKING



# KDC-C300

## SPECIFICATIONS

### Disc Section

Laser Diode.....	GaAlAs ( $\lambda = 780\text{ nm}$ )
Digital Filter (D/A).....	16 bit (Linear)
Sampling Frequency .....	44.1 kHz
Conversion Rate.....	176.4 kHz
	(4 Times Over Sampling)
Spindle Speed .....	500~200 rpm (CLV)
Wow & Flutter .....	Below Measurable Limit
Frequency Response ( $\pm 1\text{ dB}$ ).....	5 Hz~20 kHz
Total Harmonic Distortion (1 kHz) .....	0.005%
Signal to Noise Ratio .....	85 dB
Dynamic Range .....	85 dB
Channel Separation.....	85 dB
Laser Diode Properties	
Material.....	GaAlAs
Wavelength.....	780 nm
Emission Duration .....	Continuous
Laser Output Power.....	Less than 44.6 $\mu\text{W}$

\* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

### General

Operating Voltage.....	14.4 V (11~16 V)
Current Consumption .....	0.8 A
Operating Temperature.....	-10~50 °C
Installation Size (W×H×D).....	302×100×209 mm
	(11-7/8×3-7/8×7-7/8 in.)
Weight.....	3.0 kg (6.6 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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